

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

4101 Shuffel Street NW

North Canton, OH 44720

Tel: (330)497-9396

TestAmerica Job ID: 240-43416-1

Client Project/Site: EMD

For:

TRC Environmental Corp-Payne Firm

11231 Cornell Park Drive

Cincinnati, Ohio 45242

Attn: Curt Kugler

Kris Brooks

Authorized for release by:

11/7/2014 7:46:00 PM

Kris Brooks, Project Manager II

(330)966-9790

[kris.brooks@testamericainc.com](mailto:kris.brooks@testamericainc.com)

Designee for

Patrick O'Meara, Manager of Project Management

(330)966-5725

[patrick.omeara@testamericainc.com](mailto:patrick.omeara@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?

Ask  
The  
Expert

Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

# Table of Contents

Cover Page .....	1
Table of Contents .....	2
Definitions/Glossary .....	3
Case Narrative .....	4
Method Summary .....	6
Sample Summary .....	7
Detection Summary .....	8
Client Sample Results .....	11
Surrogate Summary .....	43
QC Sample Results .....	44
QC Association Summary .....	58
Lab Chronicle .....	59
Certification Summary .....	62
Chain of Custody .....	63

## Definitions/Glossary

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery exceeds the control limits

### Glossary

#### Abbreviation

These commonly used abbreviations may or may not be present in this report.

D	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

## Case Narrative

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Job ID: 240-43416-1**

**Laboratory: TestAmerica Canton**

Narrative

### CASE NARRATIVE

**Client: TRC Environmental Corp-Payne Firm**

**Project: EMD**

**Report Number: 240-43416-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

#### RECEIPT

The samples were received on 10/23/2014 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

#### VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples MW031B/102214 (240-43416-1), FB01/102214 (240-43416-2), RIN01/102214 (240-43416-3), DUP01/102214 (240-43416-4), TB02/102214 (240-43416-5), MW044/102214 (240-43416-6), MW041/102214 (240-43416-7), MW031C/102214 (240-43416-8), MW011A/102214 (240-43416-9), MW026R/102214 (240-43416-10), MW026AR/102214 (240-43416-11), MW001R/102214 (240-43416-12), MW015BR/102214 (240-43416-13), MW015R/102214 (240-43416-14), MW021A/102214 (240-43416-15) and MW025/102214 (240-43416-16) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 10/29/2014, 10/30/2014, 10/31/2014 and 11/01/2014.

Methylene Chloride was detected in method blanks MB 240-154314/6 and MB 240-154439/6 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

## Case Narrative

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

### Job ID: 240-43416-1 (Continued)

#### Laboratory: TestAmerica Canton (Continued)

1,1,1-Trichloroethane and Vinyl acetate failed the recovery criteria high for LCS 240-153932/4. Refer to the QC report for details.

Vinyl acetate failed the recovery criteria high for the MS of sample MW031C/102214MS (240-43416-8) in batch 240-154439. 1,4-Dioxane and Vinyl acetate failed the recovery criteria high for the MSD of sample MW031C/102214MSD (240-43416-8) in batch 240-154439. Refer to the QC report for details.

Samples MW031C/102214 (240-43416-8)[10X], MW015BR/102214 (240-43416-13)[13.33X] and MW015R/102214 (240-43416-14) [33.33X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The laboratory control sample (LCS) for batch 153932 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## Method Summary

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14

## Sample Summary

Client: TRC Environmental Corp-Payne Firm  
 Project/Site: EMD

TestAmerica Job ID: 240-43416-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-43416-1	MW031B/102214	Water	10/22/14 09:20	10/23/14 08:45
240-43416-2	FB01/102214	Water	10/22/14 09:30	10/23/14 08:45
240-43416-3	RIN01/102214	Water	10/22/14 09:35	10/23/14 08:45
240-43416-4	DUP01/102214	Water	10/22/14 00:00	10/23/14 08:45
240-43416-5	TB02/102214	Water	10/22/14 00:00	10/23/14 08:45
240-43416-6	MW044/102214	Water	10/22/14 09:25	10/23/14 08:45
240-43416-7	MW041/102214	Water	10/22/14 10:30	10/23/14 08:45
240-43416-8	MW031C/102214	Water	10/22/14 10:20	10/23/14 08:45
240-43416-9	MW011A/102214	Water	10/22/14 11:15	10/23/14 08:45
240-43416-10	MW026R/102214	Water	10/22/14 13:20	10/23/14 08:45
240-43416-11	MW026AR/102214	Water	10/22/14 14:05	10/23/14 08:45
240-43416-12	MW001R/102214	Water	10/22/14 15:05	10/23/14 08:45
240-43416-13	MW015BR/102214	Water	10/22/14 12:15	10/23/14 08:45
240-43416-14	MW015R/102214	Water	10/22/14 13:15	10/23/14 08:45
240-43416-15	MW021A/102214	Water	10/22/14 14:15	10/23/14 08:45
240-43416-16	MW025/102214	Water	10/22/14 15:00	10/23/14 08:45

## Detection Summary

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW031B/102214**

**Lab Sample ID: 240-43416-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.32	J	1.0	0.24	ug/L	1		8260B	Total/NA
Chloroform	0.42	J	1.0	0.21	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	7.3		1.0	0.20	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	0.75	J	1.0	0.20	ug/L	1		8260B	Total/NA
1,2-Dichloroethene, Total	7.7		2.0	0.20	ug/L	1		8260B	Total/NA
1,4-Dioxane	390		50	40	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.58	J	1.0	0.20	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.40	J	1.0	0.26	ug/L	1		8260B	Total/NA
Trichloroethene	2.7		1.0	0.15	ug/L	1		8260B	Total/NA
Vinyl chloride	4.4		1.0	0.29	ug/L	1		8260B	Total/NA

**Client Sample ID: FB01/102214**

**Lab Sample ID: 240-43416-2**

No Detections.

**Client Sample ID: RIN01/102214**

**Lab Sample ID: 240-43416-3**

No Detections.

**Client Sample ID: DUP01/102214**

**Lab Sample ID: 240-43416-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.38	J	1.0	0.24	ug/L	1		8260B	Total/NA
Chloroform	0.44	J	1.0	0.21	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	6.4		1.0	0.20	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	0.73	J	1.0	0.20	ug/L	1		8260B	Total/NA
1,2-Dichloroethene, Total	6.7		2.0	0.20	ug/L	1		8260B	Total/NA
1,4-Dioxane	540		50	40	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.47	J	1.0	0.20	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.32	J	1.0	0.26	ug/L	1		8260B	Total/NA
Trichloroethene	2.5		1.0	0.15	ug/L	1		8260B	Total/NA
Vinyl chloride	3.9		1.0	0.29	ug/L	1		8260B	Total/NA

**Client Sample ID: TB02/102214**

**Lab Sample ID: 240-43416-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.5	J	10	3.4	ug/L	1		8260B	Total/NA

**Client Sample ID: MW044/102214**

**Lab Sample ID: 240-43416-6**

No Detections.

**Client Sample ID: MW041/102214**

**Lab Sample ID: 240-43416-7**

No Detections.

**Client Sample ID: MW031C/102214**

**Lab Sample ID: 240-43416-8**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.9	J	10	2.4	ug/L	10		8260B	Total/NA
cis-1,2-Dichloroethene	14		10	2.0	ug/L	10		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

## Detection Summary

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

### Client Sample ID: MW031C/102214 (Continued)

Lab Sample ID: 240-43416-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	12		10	2.6	ug/L	10		8260B	Total/NA
1,2-Dichloroethane	64		10	2.0	ug/L	10		8260B	Total/NA
1,2-Dichloroethene, Total	14	J	20	2.0	ug/L	10		8260B	Total/NA
1,4-Dioxane	5900		500	400	ug/L	10		8260B	Total/NA
Methylene Chloride	35	B	10	2.8	ug/L	10		8260B	Total/NA
Trichloroethene	3.1	J	10	1.5	ug/L	10		8260B	Total/NA
Vinyl chloride	3.8	J	10	2.9	ug/L	10		8260B	Total/NA

### Client Sample ID: MW011A/102214

Lab Sample ID: 240-43416-9

No Detections.

### Client Sample ID: MW026R/102214

Lab Sample ID: 240-43416-10

No Detections.

### Client Sample ID: MW026AR/102214

Lab Sample ID: 240-43416-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	3.0		1.0	0.28	ug/L	1		8260B	Total/NA

### Client Sample ID: MW001R/102214

Lab Sample ID: 240-43416-12

No Detections.

### Client Sample ID: MW015BR/102214

Lab Sample ID: 240-43416-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	300		13	2.7	ug/L	13.33		8260B	Total/NA
1,4-Dioxane	1300		670	530	ug/L	13.33		8260B	Total/NA
Methylene Chloride	18	B	13	3.7	ug/L	13.33		8260B	Total/NA
Vinyl chloride	6.4	J	13	3.9	ug/L	13.33		8260B	Total/NA

### Client Sample ID: MW015R/102214

Lab Sample ID: 240-43416-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	23	J	33	8.0	ug/L	33.33		8260B	Total/NA
Carbon tetrachloride	17	J	33	5.7	ug/L	33.33		8260B	Total/NA
Chloroform	370		33	7.0	ug/L	33.33		8260B	Total/NA
cis-1,2-Dichloroethene	78		33	6.7	ug/L	33.33		8260B	Total/NA
1,1-Dichloroethane	26	J	33	8.7	ug/L	33.33		8260B	Total/NA
1,2-Dichloroethane	870		33	6.7	ug/L	33.33		8260B	Total/NA
1,2-Dichloroethene, Total	78		67	6.7	ug/L	33.33		8260B	Total/NA
Methylene Chloride	30	J B	33	9.3	ug/L	33.33		8260B	Total/NA
1,1,2,2-Tetrachloroethane	23	J	33	7.3	ug/L	33.33		8260B	Total/NA
Tetrachloroethene	72		33	6.7	ug/L	33.33		8260B	Total/NA
1,1,1-Trichloroethane	16	J	33	7.3	ug/L	33.33		8260B	Total/NA
Trichloroethene	580		33	5.0	ug/L	33.33		8260B	Total/NA

### Client Sample ID: MW021A/102214

Lab Sample ID: 240-43416-15

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

## Detection Summary

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

### Client Sample ID: MW021A/102214 (Continued)

### Lab Sample ID: 240-43416-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.24	J	1.0	0.20	ug/L	1		8260B	Total/NA
1,2-Dichloroethene, Total	0.24	J	2.0	0.20	ug/L	1		8260B	Total/NA

### Client Sample ID: MW025/102214

### Lab Sample ID: 240-43416-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.16	J	1.0	0.15	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW031B/102214**

**Lab Sample ID: 240-43416-1**

**Matrix: Water**

**Date Collected: 10/22/14 09:20**

**Date Received: 10/23/14 08:45**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.4	ug/L			10/30/14 00:13	1
Acetonitrile	ND		20	9.2	ug/L			10/30/14 00:13	1
Acrolein	ND		20	1.4	ug/L			10/30/14 00:13	1
Acrylonitrile	ND		20	6.3	ug/L			10/30/14 00:13	1
<b>Benzene</b>	<b>0.32 J</b>		1.0	0.24	ug/L			10/30/14 00:13	1
Bromodichloromethane	ND		1.0	0.15	ug/L			10/30/14 00:13	1
Bromoform	ND		1.0	0.56	ug/L			10/30/14 00:13	1
Bromomethane	ND		1.0	0.63	ug/L			10/30/14 00:13	1
2-Butanone	ND		10	4.1	ug/L			10/30/14 00:13	1
Carbon disulfide	ND		1.0	0.28	ug/L			10/30/14 00:13	1
Carbon tetrachloride	ND		1.0	0.17	ug/L			10/30/14 00:13	1
Chlorobenzene	ND		1.0	0.19	ug/L			10/30/14 00:13	1
Chloroethane	ND		1.0	0.33	ug/L			10/30/14 00:13	1
<b>Chloroform</b>	<b>0.42 J</b>		1.0	0.21	ug/L			10/30/14 00:13	1
Chloromethane	ND		1.0	0.44	ug/L			10/30/14 00:13	1
Chloroprene	ND		2.0	0.26	ug/L			10/30/14 00:13	1
3-Chloro-1-propene	ND		2.0	0.84	ug/L			10/30/14 00:13	1
<b>cis-1,2-Dichloroethene</b>	<b>7.3</b>		1.0	0.20	ug/L			10/30/14 00:13	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/30/14 00:13	1
Dibromochloromethane	ND		1.0	0.43	ug/L			10/30/14 00:13	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.82	ug/L			10/30/14 00:13	1
Dibromomethane	ND		1.0	0.17	ug/L			10/30/14 00:13	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			10/30/14 00:13	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/30/14 00:13	1
<b>1,2-Dichloroethane</b>	<b>0.75 J</b>		1.0	0.20	ug/L			10/30/14 00:13	1
1,1-Dichloroethene	ND		1.0	0.45	ug/L			10/30/14 00:13	1
<b>1,2-Dichloroethene, Total</b>	<b>7.7</b>		2.0	0.20	ug/L			10/30/14 00:13	1
1,2-Dichloropropane	ND		1.0	0.22	ug/L			10/30/14 00:13	1
<b>1,4-Dioxane</b>	<b>390</b>		50	40	ug/L			10/30/14 00:13	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/30/14 00:13	1
Ethylene Dibromide	ND		1.0	0.19	ug/L			10/30/14 00:13	1
Ethyl methacrylate	ND		1.0	0.44	ug/L			10/30/14 00:13	1
2-Hexanone	ND		10	3.9	ug/L			10/30/14 00:13	1
Iodomethane	ND		1.0	0.42	ug/L			10/30/14 00:13	1
Isobutanol	ND		50	12	ug/L			10/30/14 00:13	1
Methacrylonitrile	ND		2.0	0.70	ug/L			10/30/14 00:13	1
Methylene Chloride	ND		1.0	0.28	ug/L			10/30/14 00:13	1
Methyl methacrylate	ND		2.0	0.99	ug/L			10/30/14 00:13	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.6	ug/L			10/30/14 00:13	1
Propionitrile	ND		4.0	0.95	ug/L			10/30/14 00:13	1
Styrene	ND		1.0	0.45	ug/L			10/30/14 00:13	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/30/14 00:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			10/30/14 00:13	1
<b>Tetrachloroethene</b>	<b>0.58 J</b>		1.0	0.20	ug/L			10/30/14 00:13	1
Toluene	ND		1.0	0.22	ug/L			10/30/14 00:13	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.31	ug/L			10/30/14 00:13	1
<b>trans-1,2-Dichloroethene</b>	<b>0.40 J</b>		1.0	0.26	ug/L			10/30/14 00:13	1
trans-1,3-Dichloropropene	ND		1.0	0.56	ug/L			10/30/14 00:13	1
1,1,1-Trichloroethane	ND *		1.0	0.22	ug/L			10/30/14 00:13	1

TestAmerica Canton

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
 Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW031B/102214**  
**Date Collected: 10/22/14 09:20**  
**Date Received: 10/23/14 08:45**

**Lab Sample ID: 240-43416-1**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.17	ug/L			10/30/14 00:13	1
<b>Trichloroethene</b>	<b>2.7</b>		1.0	0.15	ug/L			10/30/14 00:13	1
Trichlorofluoromethane	ND		1.0	0.49	ug/L			10/30/14 00:13	1
1,2,3-Trichloropropane	ND		1.0	0.30	ug/L			10/30/14 00:13	1
Vinyl acetate	ND *		2.0	0.41	ug/L			10/30/14 00:13	1
<b>Vinyl chloride</b>	<b>4.4</b>		1.0	0.29	ug/L			10/30/14 00:13	1
Xylenes, Total	ND		2.0	0.43	ug/L			10/30/14 00:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		66 - 120					10/30/14 00:13	1
Dibromofluoromethane (Surr)	86		75 - 121					10/30/14 00:13	1
1,2-Dichloroethane-d4 (Surr)	77		63 - 129					10/30/14 00:13	1
Toluene-d8 (Surr)	80		74 - 120					10/30/14 00:13	1

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: FB01/102214**

**Lab Sample ID: 240-43416-2**

**Matrix: Water**

Date Collected: 10/22/14 09:30

Date Received: 10/23/14 08:45

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.4	ug/L			10/29/14 23:28	1
Acetonitrile	ND		20	9.2	ug/L			10/29/14 23:28	1
Acrolein	ND		20	1.4	ug/L			10/29/14 23:28	1
Acrylonitrile	ND		20	6.3	ug/L			10/29/14 23:28	1
Benzene	ND		1.0	0.24	ug/L			10/29/14 23:28	1
Bromodichloromethane	ND		1.0	0.15	ug/L			10/29/14 23:28	1
Bromoform	ND		1.0	0.56	ug/L			10/29/14 23:28	1
Bromomethane	ND		1.0	0.63	ug/L			10/29/14 23:28	1
2-Butanone	ND		10	4.1	ug/L			10/29/14 23:28	1
Carbon disulfide	ND		1.0	0.28	ug/L			10/29/14 23:28	1
Carbon tetrachloride	ND		1.0	0.17	ug/L			10/29/14 23:28	1
Chlorobenzene	ND		1.0	0.19	ug/L			10/29/14 23:28	1
Chloroethane	ND		1.0	0.33	ug/L			10/29/14 23:28	1
Chloroform	ND		1.0	0.21	ug/L			10/29/14 23:28	1
Chloromethane	ND		1.0	0.44	ug/L			10/29/14 23:28	1
Chloroprene	ND		2.0	0.26	ug/L			10/29/14 23:28	1
3-Chloro-1-propene	ND		2.0	0.84	ug/L			10/29/14 23:28	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/29/14 23:28	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/29/14 23:28	1
Dibromochloromethane	ND		1.0	0.43	ug/L			10/29/14 23:28	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.82	ug/L			10/29/14 23:28	1
Dibromomethane	ND		1.0	0.17	ug/L			10/29/14 23:28	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			10/29/14 23:28	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/29/14 23:28	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			10/29/14 23:28	1
1,1-Dichloroethene	ND		1.0	0.45	ug/L			10/29/14 23:28	1
1,2-Dichloroethene, Total	ND		2.0	0.20	ug/L			10/29/14 23:28	1
1,2-Dichloropropane	ND		1.0	0.22	ug/L			10/29/14 23:28	1
1,4-Dioxane	ND		50	40	ug/L			10/29/14 23:28	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/29/14 23:28	1
Ethylene Dibromide	ND		1.0	0.19	ug/L			10/29/14 23:28	1
Ethyl methacrylate	ND		1.0	0.44	ug/L			10/29/14 23:28	1
2-Hexanone	ND		10	3.9	ug/L			10/29/14 23:28	1
Iodomethane	ND		1.0	0.42	ug/L			10/29/14 23:28	1
Isobutanol	ND		50	12	ug/L			10/29/14 23:28	1
Methacrylonitrile	ND		2.0	0.70	ug/L			10/29/14 23:28	1
Methylene Chloride	ND		1.0	0.28	ug/L			10/29/14 23:28	1
Methyl methacrylate	ND		2.0	0.99	ug/L			10/29/14 23:28	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.6	ug/L			10/29/14 23:28	1
Propionitrile	ND		4.0	0.95	ug/L			10/29/14 23:28	1
Styrene	ND		1.0	0.45	ug/L			10/29/14 23:28	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/29/14 23:28	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			10/29/14 23:28	1
Tetrachloroethene	ND		1.0	0.20	ug/L			10/29/14 23:28	1
Toluene	ND		1.0	0.22	ug/L			10/29/14 23:28	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.31	ug/L			10/29/14 23:28	1
trans-1,2-Dichloroethene	ND		1.0	0.26	ug/L			10/29/14 23:28	1
trans-1,3-Dichloropropene	ND		1.0	0.56	ug/L			10/29/14 23:28	1
1,1,1-Trichloroethane	ND *		1.0	0.22	ug/L			10/29/14 23:28	1

TestAmerica Canton

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
 Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: FB01/102214**  
**Date Collected: 10/22/14 09:30**  
**Date Received: 10/23/14 08:45**

**Lab Sample ID: 240-43416-2**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.17	ug/L			10/29/14 23:28	1
Trichloroethene	ND		1.0	0.15	ug/L			10/29/14 23:28	1
Trichlorofluoromethane	ND		1.0	0.49	ug/L			10/29/14 23:28	1
1,2,3-Trichloropropane	ND		1.0	0.30	ug/L			10/29/14 23:28	1
Vinyl acetate	ND *		2.0	0.41	ug/L			10/29/14 23:28	1
Vinyl chloride	ND		1.0	0.29	ug/L			10/29/14 23:28	1
Xylenes, Total	ND		2.0	0.43	ug/L			10/29/14 23:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		66 - 120					10/29/14 23:28	1
Dibromofluoromethane (Surr)	92		75 - 121					10/29/14 23:28	1
1,2-Dichloroethane-d4 (Surr)	85		63 - 129					10/29/14 23:28	1
Toluene-d8 (Surr)	90		74 - 120					10/29/14 23:28	1

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: RIN01/102214**

**Lab Sample ID: 240-43416-3**

**Matrix: Water**

**Date Collected: 10/22/14 09:35**

**Date Received: 10/23/14 08:45**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.4	ug/L			10/29/14 23:51	1
Acetonitrile	ND		20	9.2	ug/L			10/29/14 23:51	1
Acrolein	ND		20	1.4	ug/L			10/29/14 23:51	1
Acrylonitrile	ND		20	6.3	ug/L			10/29/14 23:51	1
Benzene	ND		1.0	0.24	ug/L			10/29/14 23:51	1
Bromodichloromethane	ND		1.0	0.15	ug/L			10/29/14 23:51	1
Bromoform	ND		1.0	0.56	ug/L			10/29/14 23:51	1
Bromomethane	ND		1.0	0.63	ug/L			10/29/14 23:51	1
2-Butanone	ND		10	4.1	ug/L			10/29/14 23:51	1
Carbon disulfide	ND		1.0	0.28	ug/L			10/29/14 23:51	1
Carbon tetrachloride	ND		1.0	0.17	ug/L			10/29/14 23:51	1
Chlorobenzene	ND		1.0	0.19	ug/L			10/29/14 23:51	1
Chloroethane	ND		1.0	0.33	ug/L			10/29/14 23:51	1
Chloroform	ND		1.0	0.21	ug/L			10/29/14 23:51	1
Chloromethane	ND		1.0	0.44	ug/L			10/29/14 23:51	1
Chloroprene	ND		2.0	0.26	ug/L			10/29/14 23:51	1
3-Chloro-1-propene	ND		2.0	0.84	ug/L			10/29/14 23:51	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/29/14 23:51	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/29/14 23:51	1
Dibromochloromethane	ND		1.0	0.43	ug/L			10/29/14 23:51	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.82	ug/L			10/29/14 23:51	1
Dibromomethane	ND		1.0	0.17	ug/L			10/29/14 23:51	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			10/29/14 23:51	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/29/14 23:51	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			10/29/14 23:51	1
1,1-Dichloroethene	ND		1.0	0.45	ug/L			10/29/14 23:51	1
1,2-Dichloroethene, Total	ND		2.0	0.20	ug/L			10/29/14 23:51	1
1,2-Dichloropropane	ND		1.0	0.22	ug/L			10/29/14 23:51	1
1,4-Dioxane	ND		50	40	ug/L			10/29/14 23:51	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/29/14 23:51	1
Ethylene Dibromide	ND		1.0	0.19	ug/L			10/29/14 23:51	1
Ethyl methacrylate	ND		1.0	0.44	ug/L			10/29/14 23:51	1
2-Hexanone	ND		10	3.9	ug/L			10/29/14 23:51	1
Iodomethane	ND		1.0	0.42	ug/L			10/29/14 23:51	1
Isobutanol	ND		50	12	ug/L			10/29/14 23:51	1
Methacrylonitrile	ND		2.0	0.70	ug/L			10/29/14 23:51	1
Methylene Chloride	ND		1.0	0.28	ug/L			10/29/14 23:51	1
Methyl methacrylate	ND		2.0	0.99	ug/L			10/29/14 23:51	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.6	ug/L			10/29/14 23:51	1
Propionitrile	ND		4.0	0.95	ug/L			10/29/14 23:51	1
Styrene	ND		1.0	0.45	ug/L			10/29/14 23:51	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/29/14 23:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			10/29/14 23:51	1
Tetrachloroethene	ND		1.0	0.20	ug/L			10/29/14 23:51	1
Toluene	ND		1.0	0.22	ug/L			10/29/14 23:51	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.31	ug/L			10/29/14 23:51	1
trans-1,2-Dichloroethene	ND		1.0	0.26	ug/L			10/29/14 23:51	1
trans-1,3-Dichloropropene	ND		1.0	0.56	ug/L			10/29/14 23:51	1
1,1,1-Trichloroethane	ND *		1.0	0.22	ug/L			10/29/14 23:51	1

TestAmerica Canton

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
 Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: RIN01/102214**  
**Date Collected: 10/22/14 09:35**  
**Date Received: 10/23/14 08:45**

**Lab Sample ID: 240-43416-3**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.17	ug/L			10/29/14 23:51	1
Trichloroethene	ND		1.0	0.15	ug/L			10/29/14 23:51	1
Trichlorofluoromethane	ND		1.0	0.49	ug/L			10/29/14 23:51	1
1,2,3-Trichloropropane	ND		1.0	0.30	ug/L			10/29/14 23:51	1
Vinyl acetate	ND *		2.0	0.41	ug/L			10/29/14 23:51	1
Vinyl chloride	ND		1.0	0.29	ug/L			10/29/14 23:51	1
Xylenes, Total	ND		2.0	0.43	ug/L			10/29/14 23:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		66 - 120					10/29/14 23:51	1
Dibromofluoromethane (Surr)	92		75 - 121					10/29/14 23:51	1
1,2-Dichloroethane-d4 (Surr)	83		63 - 129					10/29/14 23:51	1
Toluene-d8 (Surr)	85		74 - 120					10/29/14 23:51	1

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: DUP01/102214**

**Lab Sample ID: 240-43416-4**

**Matrix: Water**

**Date Collected: 10/22/14 00:00**

**Date Received: 10/23/14 08:45**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.4	ug/L			10/31/14 15:36	1
Acetonitrile	ND		20	9.2	ug/L			10/31/14 15:36	1
Acrolein	ND		20	1.4	ug/L			10/31/14 15:36	1
Acrylonitrile	ND		20	6.3	ug/L			10/31/14 15:36	1
<b>Benzene</b>	<b>0.38 J</b>		1.0	0.24	ug/L			10/31/14 15:36	1
Bromodichloromethane	ND		1.0	0.15	ug/L			10/31/14 15:36	1
Bromoform	ND		1.0	0.56	ug/L			10/31/14 15:36	1
Bromomethane	ND		1.0	0.63	ug/L			10/31/14 15:36	1
2-Butanone	ND		10	4.1	ug/L			10/31/14 15:36	1
Carbon disulfide	ND		1.0	0.28	ug/L			10/31/14 15:36	1
Carbon tetrachloride	ND		1.0	0.17	ug/L			10/31/14 15:36	1
Chlorobenzene	ND		1.0	0.19	ug/L			10/31/14 15:36	1
Chloroethane	ND		1.0	0.33	ug/L			10/31/14 15:36	1
<b>Chloroform</b>	<b>0.44 J</b>		1.0	0.21	ug/L			10/31/14 15:36	1
Chloromethane	ND		1.0	0.44	ug/L			10/31/14 15:36	1
Chloroprene	ND		2.0	0.26	ug/L			10/31/14 15:36	1
3-Chloro-1-propene	ND		2.0	0.84	ug/L			10/31/14 15:36	1
<b>cis-1,2-Dichloroethene</b>	<b>6.4</b>		1.0	0.20	ug/L			10/31/14 15:36	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/31/14 15:36	1
Dibromochloromethane	ND		1.0	0.43	ug/L			10/31/14 15:36	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.82	ug/L			10/31/14 15:36	1
Dibromomethane	ND		1.0	0.17	ug/L			10/31/14 15:36	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			10/31/14 15:36	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/31/14 15:36	1
<b>1,2-Dichloroethane</b>	<b>0.73 J</b>		1.0	0.20	ug/L			10/31/14 15:36	1
1,1-Dichloroethene	ND		1.0	0.45	ug/L			10/31/14 15:36	1
<b>1,2-Dichloroethene, Total</b>	<b>6.7</b>		2.0	0.20	ug/L			10/31/14 15:36	1
1,2-Dichloropropene	ND		1.0	0.22	ug/L			10/31/14 15:36	1
<b>1,4-Dioxane</b>	<b>540</b>		50	40	ug/L			10/31/14 15:36	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/31/14 15:36	1
Ethylene Dibromide	ND		1.0	0.19	ug/L			10/31/14 15:36	1
Ethyl methacrylate	ND		1.0	0.44	ug/L			10/31/14 15:36	1
2-Hexanone	ND		10	3.9	ug/L			10/31/14 15:36	1
Iodomethane	ND		1.0	0.42	ug/L			10/31/14 15:36	1
Isobutanol	ND		50	12	ug/L			10/31/14 15:36	1
Methacrylonitrile	ND		2.0	0.70	ug/L			10/31/14 15:36	1
Methylene Chloride	ND		1.0	0.28	ug/L			10/31/14 15:36	1
Methyl methacrylate	ND		2.0	0.99	ug/L			10/31/14 15:36	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.6	ug/L			10/31/14 15:36	1
Propionitrile	ND		4.0	0.95	ug/L			10/31/14 15:36	1
Styrene	ND		1.0	0.45	ug/L			10/31/14 15:36	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/31/14 15:36	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			10/31/14 15:36	1
<b>Tetrachloroethene</b>	<b>0.47 J</b>		1.0	0.20	ug/L			10/31/14 15:36	1
Toluene	ND		1.0	0.22	ug/L			10/31/14 15:36	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.31	ug/L			10/31/14 15:36	1
<b>trans-1,2-Dichloroethene</b>	<b>0.32 J</b>		1.0	0.26	ug/L			10/31/14 15:36	1
trans-1,3-Dichloropropene	ND		1.0	0.56	ug/L			10/31/14 15:36	1
1,1,1-Trichloroethane	ND		1.0	0.22	ug/L			10/31/14 15:36	1

TestAmerica Canton

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
 Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: DUP01/102214**  
**Date Collected: 10/22/14 00:00**  
**Date Received: 10/23/14 08:45**

**Lab Sample ID: 240-43416-4**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.17	ug/L			10/31/14 15:36	1
<b>Trichloroethene</b>	<b>2.5</b>		1.0	0.15	ug/L			10/31/14 15:36	1
Trichlorofluoromethane	ND		1.0	0.49	ug/L			10/31/14 15:36	1
1,2,3-Trichloropropane	ND		1.0	0.30	ug/L			10/31/14 15:36	1
Vinyl acetate	ND		2.0	0.41	ug/L			10/31/14 15:36	1
<b>Vinyl chloride</b>	<b>3.9</b>		1.0	0.29	ug/L			10/31/14 15:36	1
Xylenes, Total	ND		2.0	0.43	ug/L			10/31/14 15:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		66 - 120					10/31/14 15:36	1
Dibromofluoromethane (Surr)	90		75 - 121					10/31/14 15:36	1
1,2-Dichloroethane-d4 (Surr)	92		63 - 129					10/31/14 15:36	1
Toluene-d8 (Surr)	92		74 - 120					10/31/14 15:36	1

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: TB02/102214**

**Lab Sample ID: 240-43416-5**

**Matrix: Water**

**Date Collected: 10/22/14 00:00**

**Date Received: 10/23/14 08:45**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	4.5	J	10	3.4	ug/L			10/31/14 16:08	1
Acetonitrile	ND		20	9.2	ug/L			10/31/14 16:08	1
Acrolein	ND		20	1.4	ug/L			10/31/14 16:08	1
Acrylonitrile	ND		20	6.3	ug/L			10/31/14 16:08	1
Benzene	ND		1.0	0.24	ug/L			10/31/14 16:08	1
Bromodichloromethane	ND		1.0	0.15	ug/L			10/31/14 16:08	1
Bromoform	ND		1.0	0.56	ug/L			10/31/14 16:08	1
Bromomethane	ND		1.0	0.63	ug/L			10/31/14 16:08	1
2-Butanone	ND		10	4.1	ug/L			10/31/14 16:08	1
Carbon disulfide	ND		1.0	0.28	ug/L			10/31/14 16:08	1
Carbon tetrachloride	ND		1.0	0.17	ug/L			10/31/14 16:08	1
Chlorobenzene	ND		1.0	0.19	ug/L			10/31/14 16:08	1
Chloroethane	ND		1.0	0.33	ug/L			10/31/14 16:08	1
Chloroform	ND		1.0	0.21	ug/L			10/31/14 16:08	1
Chloromethane	ND		1.0	0.44	ug/L			10/31/14 16:08	1
Chloroprene	ND		2.0	0.26	ug/L			10/31/14 16:08	1
3-Chloro-1-propene	ND		2.0	0.84	ug/L			10/31/14 16:08	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/31/14 16:08	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/31/14 16:08	1
Dibromochloromethane	ND		1.0	0.43	ug/L			10/31/14 16:08	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.82	ug/L			10/31/14 16:08	1
Dibromomethane	ND		1.0	0.17	ug/L			10/31/14 16:08	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			10/31/14 16:08	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/31/14 16:08	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			10/31/14 16:08	1
1,1-Dichloroethene	ND		1.0	0.45	ug/L			10/31/14 16:08	1
1,2-Dichloroethene, Total	ND		2.0	0.20	ug/L			10/31/14 16:08	1
1,2-Dichloropropane	ND		1.0	0.22	ug/L			10/31/14 16:08	1
1,4-Dioxane	ND		50	40	ug/L			10/31/14 16:08	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/31/14 16:08	1
Ethylene Dibromide	ND		1.0	0.19	ug/L			10/31/14 16:08	1
Ethyl methacrylate	ND		1.0	0.44	ug/L			10/31/14 16:08	1
2-Hexanone	ND		10	3.9	ug/L			10/31/14 16:08	1
Iodomethane	ND		1.0	0.42	ug/L			10/31/14 16:08	1
Isobutanol	ND		50	12	ug/L			10/31/14 16:08	1
Methacrylonitrile	ND		2.0	0.70	ug/L			10/31/14 16:08	1
Methylene Chloride	ND		1.0	0.28	ug/L			10/31/14 16:08	1
Methyl methacrylate	ND		2.0	0.99	ug/L			10/31/14 16:08	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.6	ug/L			10/31/14 16:08	1
Propionitrile	ND		4.0	0.95	ug/L			10/31/14 16:08	1
Styrene	ND		1.0	0.45	ug/L			10/31/14 16:08	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/31/14 16:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			10/31/14 16:08	1
Tetrachloroethene	ND		1.0	0.20	ug/L			10/31/14 16:08	1
Toluene	ND		1.0	0.22	ug/L			10/31/14 16:08	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.31	ug/L			10/31/14 16:08	1
trans-1,2-Dichloroethene	ND		1.0	0.26	ug/L			10/31/14 16:08	1
trans-1,3-Dichloropropene	ND		1.0	0.56	ug/L			10/31/14 16:08	1
1,1,1-Trichloroethane	ND		1.0	0.22	ug/L			10/31/14 16:08	1

TestAmerica Canton

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
 Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: TB02/102214**  
**Date Collected: 10/22/14 00:00**  
**Date Received: 10/23/14 08:45**

**Lab Sample ID: 240-43416-5**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.17	ug/L			10/31/14 16:08	1
Trichloroethene	ND		1.0	0.15	ug/L			10/31/14 16:08	1
Trichlorofluoromethane	ND		1.0	0.49	ug/L			10/31/14 16:08	1
1,2,3-Trichloropropane	ND		1.0	0.30	ug/L			10/31/14 16:08	1
Vinyl acetate	ND		2.0	0.41	ug/L			10/31/14 16:08	1
Vinyl chloride	ND		1.0	0.29	ug/L			10/31/14 16:08	1
Xylenes, Total	ND		2.0	0.43	ug/L			10/31/14 16:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		66 - 120					10/31/14 16:08	1
Dibromofluoromethane (Surr)	92		75 - 121					10/31/14 16:08	1
1,2-Dichloroethane-d4 (Surr)	90		63 - 129					10/31/14 16:08	1
Toluene-d8 (Surr)	92		74 - 120					10/31/14 16:08	1

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW044/102214**

**Lab Sample ID: 240-43416-6**

**Matrix: Water**

**Date Collected: 10/22/14 09:25**

**Date Received: 10/23/14 08:45**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.4	ug/L			10/31/14 16:31	1
Acetonitrile	ND		20	9.2	ug/L			10/31/14 16:31	1
Acrolein	ND		20	1.4	ug/L			10/31/14 16:31	1
Acrylonitrile	ND		20	6.3	ug/L			10/31/14 16:31	1
Benzene	ND		1.0	0.24	ug/L			10/31/14 16:31	1
Bromodichloromethane	ND		1.0	0.15	ug/L			10/31/14 16:31	1
Bromoform	ND		1.0	0.56	ug/L			10/31/14 16:31	1
Bromomethane	ND		1.0	0.63	ug/L			10/31/14 16:31	1
2-Butanone	ND		10	4.1	ug/L			10/31/14 16:31	1
Carbon disulfide	ND		1.0	0.28	ug/L			10/31/14 16:31	1
Carbon tetrachloride	ND		1.0	0.17	ug/L			10/31/14 16:31	1
Chlorobenzene	ND		1.0	0.19	ug/L			10/31/14 16:31	1
Chloroethane	ND		1.0	0.33	ug/L			10/31/14 16:31	1
Chloroform	ND		1.0	0.21	ug/L			10/31/14 16:31	1
Chloromethane	ND		1.0	0.44	ug/L			10/31/14 16:31	1
Chloroprene	ND		2.0	0.26	ug/L			10/31/14 16:31	1
3-Chloro-1-propene	ND		2.0	0.84	ug/L			10/31/14 16:31	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/31/14 16:31	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/31/14 16:31	1
Dibromochloromethane	ND		1.0	0.43	ug/L			10/31/14 16:31	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.82	ug/L			10/31/14 16:31	1
Dibromomethane	ND		1.0	0.17	ug/L			10/31/14 16:31	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			10/31/14 16:31	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/31/14 16:31	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			10/31/14 16:31	1
1,1-Dichloroethene	ND		1.0	0.45	ug/L			10/31/14 16:31	1
1,2-Dichloroethene, Total	ND		2.0	0.20	ug/L			10/31/14 16:31	1
1,2-Dichloropropane	ND		1.0	0.22	ug/L			10/31/14 16:31	1
1,4-Dioxane	ND		50	40	ug/L			10/31/14 16:31	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/31/14 16:31	1
Ethylene Dibromide	ND		1.0	0.19	ug/L			10/31/14 16:31	1
Ethyl methacrylate	ND		1.0	0.44	ug/L			10/31/14 16:31	1
2-Hexanone	ND		10	3.9	ug/L			10/31/14 16:31	1
Iodomethane	ND		1.0	0.42	ug/L			10/31/14 16:31	1
Isobutanol	ND		50	12	ug/L			10/31/14 16:31	1
Methacrylonitrile	ND		2.0	0.70	ug/L			10/31/14 16:31	1
Methylene Chloride	ND		1.0	0.28	ug/L			10/31/14 16:31	1
Methyl methacrylate	ND		2.0	0.99	ug/L			10/31/14 16:31	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.6	ug/L			10/31/14 16:31	1
Propionitrile	ND		4.0	0.95	ug/L			10/31/14 16:31	1
Styrene	ND		1.0	0.45	ug/L			10/31/14 16:31	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/31/14 16:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			10/31/14 16:31	1
Tetrachloroethene	ND		1.0	0.20	ug/L			10/31/14 16:31	1
Toluene	ND		1.0	0.22	ug/L			10/31/14 16:31	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.31	ug/L			10/31/14 16:31	1
trans-1,2-Dichloroethene	ND		1.0	0.26	ug/L			10/31/14 16:31	1
trans-1,3-Dichloropropene	ND		1.0	0.56	ug/L			10/31/14 16:31	1
1,1,1-Trichloroethane	ND		1.0	0.22	ug/L			10/31/14 16:31	1

TestAmerica Canton

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
 Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW044/102214**  
**Date Collected: 10/22/14 09:25**  
**Date Received: 10/23/14 08:45**

**Lab Sample ID: 240-43416-6**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.17	ug/L			10/31/14 16:31	1
Trichloroethene	ND		1.0	0.15	ug/L			10/31/14 16:31	1
Trichlorofluoromethane	ND		1.0	0.49	ug/L			10/31/14 16:31	1
1,2,3-Trichloropropane	ND		1.0	0.30	ug/L			10/31/14 16:31	1
Vinyl acetate	ND		2.0	0.41	ug/L			10/31/14 16:31	1
Vinyl chloride	ND		1.0	0.29	ug/L			10/31/14 16:31	1
Xylenes, Total	ND		2.0	0.43	ug/L			10/31/14 16:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		66 - 120					10/31/14 16:31	1
Dibromofluoromethane (Surr)	91		75 - 121					10/31/14 16:31	1
1,2-Dichloroethane-d4 (Surr)	92		63 - 129					10/31/14 16:31	1
Toluene-d8 (Surr)	90		74 - 120					10/31/14 16:31	1

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW041/102214**

**Lab Sample ID: 240-43416-7**

**Matrix: Water**

**Date Collected: 10/22/14 10:30**

**Date Received: 10/23/14 08:45**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.4	ug/L			10/31/14 16:53	1
Acetonitrile	ND		20	9.2	ug/L			10/31/14 16:53	1
Acrolein	ND		20	1.4	ug/L			10/31/14 16:53	1
Acrylonitrile	ND		20	6.3	ug/L			10/31/14 16:53	1
Benzene	ND		1.0	0.24	ug/L			10/31/14 16:53	1
Bromodichloromethane	ND		1.0	0.15	ug/L			10/31/14 16:53	1
Bromoform	ND		1.0	0.56	ug/L			10/31/14 16:53	1
Bromomethane	ND		1.0	0.63	ug/L			10/31/14 16:53	1
2-Butanone	ND		10	4.1	ug/L			10/31/14 16:53	1
Carbon disulfide	ND		1.0	0.28	ug/L			10/31/14 16:53	1
Carbon tetrachloride	ND		1.0	0.17	ug/L			10/31/14 16:53	1
Chlorobenzene	ND		1.0	0.19	ug/L			10/31/14 16:53	1
Chloroethane	ND		1.0	0.33	ug/L			10/31/14 16:53	1
Chloroform	ND		1.0	0.21	ug/L			10/31/14 16:53	1
Chloromethane	ND		1.0	0.44	ug/L			10/31/14 16:53	1
Chloroprene	ND		2.0	0.26	ug/L			10/31/14 16:53	1
3-Chloro-1-propene	ND		2.0	0.84	ug/L			10/31/14 16:53	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/31/14 16:53	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/31/14 16:53	1
Dibromochloromethane	ND		1.0	0.43	ug/L			10/31/14 16:53	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.82	ug/L			10/31/14 16:53	1
Dibromomethane	ND		1.0	0.17	ug/L			10/31/14 16:53	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			10/31/14 16:53	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/31/14 16:53	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			10/31/14 16:53	1
1,1-Dichloroethene	ND		1.0	0.45	ug/L			10/31/14 16:53	1
1,2-Dichloroethene, Total	ND		2.0	0.20	ug/L			10/31/14 16:53	1
1,2-Dichloropropane	ND		1.0	0.22	ug/L			10/31/14 16:53	1
1,4-Dioxane	ND		50	40	ug/L			10/31/14 16:53	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/31/14 16:53	1
Ethylene Dibromide	ND		1.0	0.19	ug/L			10/31/14 16:53	1
Ethyl methacrylate	ND		1.0	0.44	ug/L			10/31/14 16:53	1
2-Hexanone	ND		10	3.9	ug/L			10/31/14 16:53	1
Iodomethane	ND		1.0	0.42	ug/L			10/31/14 16:53	1
Isobutanol	ND		50	12	ug/L			10/31/14 16:53	1
Methacrylonitrile	ND		2.0	0.70	ug/L			10/31/14 16:53	1
Methylene Chloride	ND		1.0	0.28	ug/L			10/31/14 16:53	1
Methyl methacrylate	ND		2.0	0.99	ug/L			10/31/14 16:53	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.6	ug/L			10/31/14 16:53	1
Propionitrile	ND		4.0	0.95	ug/L			10/31/14 16:53	1
Styrene	ND		1.0	0.45	ug/L			10/31/14 16:53	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/31/14 16:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			10/31/14 16:53	1
Tetrachloroethene	ND		1.0	0.20	ug/L			10/31/14 16:53	1
Toluene	ND		1.0	0.22	ug/L			10/31/14 16:53	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.31	ug/L			10/31/14 16:53	1
trans-1,2-Dichloroethene	ND		1.0	0.26	ug/L			10/31/14 16:53	1
trans-1,3-Dichloropropene	ND		1.0	0.56	ug/L			10/31/14 16:53	1
1,1,1-Trichloroethane	ND		1.0	0.22	ug/L			10/31/14 16:53	1

TestAmerica Canton

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
 Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW041/102214**  
**Date Collected: 10/22/14 10:30**  
**Date Received: 10/23/14 08:45**

**Lab Sample ID: 240-43416-7**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.17	ug/L			10/31/14 16:53	1
Trichloroethene	ND		1.0	0.15	ug/L			10/31/14 16:53	1
Trichlorofluoromethane	ND		1.0	0.49	ug/L			10/31/14 16:53	1
1,2,3-Trichloropropane	ND		1.0	0.30	ug/L			10/31/14 16:53	1
Vinyl acetate	ND		2.0	0.41	ug/L			10/31/14 16:53	1
Vinyl chloride	ND		1.0	0.29	ug/L			10/31/14 16:53	1
Xylenes, Total	ND		2.0	0.43	ug/L			10/31/14 16:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		66 - 120					10/31/14 16:53	1
Dibromofluoromethane (Surr)	91		75 - 121					10/31/14 16:53	1
1,2-Dichloroethane-d4 (Surr)	93		63 - 129					10/31/14 16:53	1
Toluene-d8 (Surr)	93		74 - 120					10/31/14 16:53	1

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW031C/102214**

**Lab Sample ID: 240-43416-8**

**Matrix: Water**

**Date Collected: 10/22/14 10:20**

**Date Received: 10/23/14 08:45**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		100	34	ug/L			11/01/14 17:52	10
Acetonitrile	ND		200	92	ug/L			11/01/14 17:52	10
Acrolein	ND		200	14	ug/L			11/01/14 17:52	10
Acrylonitrile	ND		200	63	ug/L			11/01/14 17:52	10
<b>Benzene</b>	<b>2.9 J</b>		10	2.4	ug/L			11/01/14 17:52	10
Bromodichloromethane	ND		10	1.5	ug/L			11/01/14 17:52	10
Bromoform	ND		10	5.6	ug/L			11/01/14 17:52	10
Bromomethane	ND		10	6.3	ug/L			11/01/14 17:52	10
2-Butanone	ND		100	41	ug/L			11/01/14 17:52	10
Carbon disulfide	ND		10	2.8	ug/L			11/01/14 17:52	10
Carbon tetrachloride	ND		10	1.7	ug/L			11/01/14 17:52	10
Chlorobenzene	ND		10	1.9	ug/L			11/01/14 17:52	10
Chloroethane	ND		10	3.3	ug/L			11/01/14 17:52	10
Chloroform	ND		10	2.1	ug/L			11/01/14 17:52	10
Chloromethane	ND		10	4.4	ug/L			11/01/14 17:52	10
Chloroprene	ND		20	2.6	ug/L			11/01/14 17:52	10
3-Chloro-1-propene	ND		20	8.4	ug/L			11/01/14 17:52	10
<b>cis-1,2-Dichloroethene</b>	<b>14</b>		10	2.0	ug/L			11/01/14 17:52	10
cis-1,3-Dichloropropene	ND		10	4.6	ug/L			11/01/14 17:52	10
Dibromochloromethane	ND		10	4.3	ug/L			11/01/14 17:52	10
1,2-Dibromo-3-Chloropropane	ND		20	8.2	ug/L			11/01/14 17:52	10
Dibromomethane	ND		10	1.7	ug/L			11/01/14 17:52	10
Dichlorodifluoromethane	ND		10	5.0	ug/L			11/01/14 17:52	10
<b>1,1-Dichloroethane</b>	<b>12</b>		10	2.6	ug/L			11/01/14 17:52	10
<b>1,2-Dichloroethane</b>	<b>64</b>		10	2.0	ug/L			11/01/14 17:52	10
1,1-Dichloroethene	ND		10	4.5	ug/L			11/01/14 17:52	10
<b>1,2-Dichloroethene, Total</b>	<b>14 J</b>		20	2.0	ug/L			11/01/14 17:52	10
1,2-Dichloropropane	ND		10	2.2	ug/L			11/01/14 17:52	10
<b>1,4-Dioxane</b>	<b>5900</b>		500	400	ug/L			11/01/14 17:52	10
Ethylbenzene	ND		10	2.3	ug/L			11/01/14 17:52	10
Ethylene Dibromide	ND		10	1.9	ug/L			11/01/14 17:52	10
Ethyl methacrylate	ND		10	4.4	ug/L			11/01/14 17:52	10
2-Hexanone	ND		100	39	ug/L			11/01/14 17:52	10
Iodomethane	ND		10	4.2	ug/L			11/01/14 17:52	10
Isobutanol	ND		500	120	ug/L			11/01/14 17:52	10
Methacrylonitrile	ND		20	7.0	ug/L			11/01/14 17:52	10
<b>Methylene Chloride</b>	<b>35 B</b>		10	2.8	ug/L			11/01/14 17:52	10
Methyl methacrylate	ND		20	9.9	ug/L			11/01/14 17:52	10
4-Methyl-2-pentanone (MIBK)	ND		100	36	ug/L			11/01/14 17:52	10
Propionitrile	ND		40	9.5	ug/L			11/01/14 17:52	10
Styrene	ND		10	4.5	ug/L			11/01/14 17:52	10
1,1,1,2-Tetrachloroethane	ND		10	2.8	ug/L			11/01/14 17:52	10
1,1,2,2-Tetrachloroethane	ND		10	2.2	ug/L			11/01/14 17:52	10
Tetrachloroethene	ND		10	2.0	ug/L			11/01/14 17:52	10
Toluene	ND		10	2.2	ug/L			11/01/14 17:52	10
trans-1,4-Dichloro-2-butene	ND		10	3.1	ug/L			11/01/14 17:52	10
trans-1,2-Dichloroethene	ND		10	2.6	ug/L			11/01/14 17:52	10
trans-1,3-Dichloropropene	ND		10	5.6	ug/L			11/01/14 17:52	10
1,1,1-Trichloroethane	ND		10	2.2	ug/L			11/01/14 17:52	10

TestAmerica Canton

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
 Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW031C/102214**  
**Date Collected: 10/22/14 10:20**  
**Date Received: 10/23/14 08:45**

**Lab Sample ID: 240-43416-8**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		10	1.7	ug/L			11/01/14 17:52	10
<b>Trichloroethene</b>	<b>3.1</b>	<b>J</b>	10	1.5	ug/L			11/01/14 17:52	10
Trichlorofluoromethane	ND		10	4.9	ug/L			11/01/14 17:52	10
1,2,3-Trichloropropane	ND		10	3.0	ug/L			11/01/14 17:52	10
Vinyl acetate	ND		20	4.1	ug/L			11/01/14 17:52	10
<b>Vinyl chloride</b>	<b>3.8</b>	<b>J</b>	10	2.9	ug/L			11/01/14 17:52	10
Xylenes, Total	ND		20	4.3	ug/L			11/01/14 17:52	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		66 - 120					11/01/14 17:52	10
Dibromofluoromethane (Surr)	94		75 - 121					11/01/14 17:52	10
1,2-Dichloroethane-d4 (Surr)	94		63 - 129					11/01/14 17:52	10
Toluene-d8 (Surr)	89		74 - 120					11/01/14 17:52	10

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW011A/102214**

**Lab Sample ID: 240-43416-9**

**Matrix: Water**

**Date Collected: 10/22/14 11:15**

**Date Received: 10/23/14 08:45**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.4	ug/L			10/31/14 17:38	1
Acetonitrile	ND		20	9.2	ug/L			10/31/14 17:38	1
Acrolein	ND		20	1.4	ug/L			10/31/14 17:38	1
Acrylonitrile	ND		20	6.3	ug/L			10/31/14 17:38	1
Benzene	ND		1.0	0.24	ug/L			10/31/14 17:38	1
Bromodichloromethane	ND		1.0	0.15	ug/L			10/31/14 17:38	1
Bromoform	ND		1.0	0.56	ug/L			10/31/14 17:38	1
Bromomethane	ND		1.0	0.63	ug/L			10/31/14 17:38	1
2-Butanone	ND		10	4.1	ug/L			10/31/14 17:38	1
Carbon disulfide	ND		1.0	0.28	ug/L			10/31/14 17:38	1
Carbon tetrachloride	ND		1.0	0.17	ug/L			10/31/14 17:38	1
Chlorobenzene	ND		1.0	0.19	ug/L			10/31/14 17:38	1
Chloroethane	ND		1.0	0.33	ug/L			10/31/14 17:38	1
Chloroform	ND		1.0	0.21	ug/L			10/31/14 17:38	1
Chloromethane	ND		1.0	0.44	ug/L			10/31/14 17:38	1
Chloroprene	ND		2.0	0.26	ug/L			10/31/14 17:38	1
3-Chloro-1-propene	ND		2.0	0.84	ug/L			10/31/14 17:38	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/31/14 17:38	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/31/14 17:38	1
Dibromochloromethane	ND		1.0	0.43	ug/L			10/31/14 17:38	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.82	ug/L			10/31/14 17:38	1
Dibromomethane	ND		1.0	0.17	ug/L			10/31/14 17:38	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			10/31/14 17:38	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/31/14 17:38	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			10/31/14 17:38	1
1,1-Dichloroethene	ND		1.0	0.45	ug/L			10/31/14 17:38	1
1,2-Dichloroethene, Total	ND		2.0	0.20	ug/L			10/31/14 17:38	1
1,2-Dichloropropane	ND		1.0	0.22	ug/L			10/31/14 17:38	1
1,4-Dioxane	ND		50	40	ug/L			10/31/14 17:38	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/31/14 17:38	1
Ethylene Dibromide	ND		1.0	0.19	ug/L			10/31/14 17:38	1
Ethyl methacrylate	ND		1.0	0.44	ug/L			10/31/14 17:38	1
2-Hexanone	ND		10	3.9	ug/L			10/31/14 17:38	1
Iodomethane	ND		1.0	0.42	ug/L			10/31/14 17:38	1
Isobutanol	ND		50	12	ug/L			10/31/14 17:38	1
Methacrylonitrile	ND		2.0	0.70	ug/L			10/31/14 17:38	1
Methylene Chloride	ND		1.0	0.28	ug/L			10/31/14 17:38	1
Methyl methacrylate	ND		2.0	0.99	ug/L			10/31/14 17:38	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.6	ug/L			10/31/14 17:38	1
Propionitrile	ND		4.0	0.95	ug/L			10/31/14 17:38	1
Styrene	ND		1.0	0.45	ug/L			10/31/14 17:38	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/31/14 17:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			10/31/14 17:38	1
Tetrachloroethene	ND		1.0	0.20	ug/L			10/31/14 17:38	1
Toluene	ND		1.0	0.22	ug/L			10/31/14 17:38	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.31	ug/L			10/31/14 17:38	1
trans-1,2-Dichloroethene	ND		1.0	0.26	ug/L			10/31/14 17:38	1
trans-1,3-Dichloropropene	ND		1.0	0.56	ug/L			10/31/14 17:38	1
1,1,1-Trichloroethane	ND		1.0	0.22	ug/L			10/31/14 17:38	1

TestAmerica Canton

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
 Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW011A/102214**  
**Date Collected: 10/22/14 11:15**  
**Date Received: 10/23/14 08:45**

**Lab Sample ID: 240-43416-9**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.17	ug/L			10/31/14 17:38	1
Trichloroethene	ND		1.0	0.15	ug/L			10/31/14 17:38	1
Trichlorofluoromethane	ND		1.0	0.49	ug/L			10/31/14 17:38	1
1,2,3-Trichloropropane	ND		1.0	0.30	ug/L			10/31/14 17:38	1
Vinyl acetate	ND		2.0	0.41	ug/L			10/31/14 17:38	1
Vinyl chloride	ND		1.0	0.29	ug/L			10/31/14 17:38	1
Xylenes, Total	ND		2.0	0.43	ug/L			10/31/14 17:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		66 - 120					10/31/14 17:38	1
Dibromofluoromethane (Surr)	89		75 - 121					10/31/14 17:38	1
1,2-Dichloroethane-d4 (Surr)	91		63 - 129					10/31/14 17:38	1
Toluene-d8 (Surr)	93		74 - 120					10/31/14 17:38	1

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW026R/102214**

**Lab Sample ID: 240-43416-10**

**Matrix: Water**

**Date Collected: 10/22/14 13:20**

**Date Received: 10/23/14 08:45**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.4	ug/L			10/31/14 18:00	1
Acetonitrile	ND		20	9.2	ug/L			10/31/14 18:00	1
Acrolein	ND		20	1.4	ug/L			10/31/14 18:00	1
Acrylonitrile	ND		20	6.3	ug/L			10/31/14 18:00	1
Benzene	ND		1.0	0.24	ug/L			10/31/14 18:00	1
Bromodichloromethane	ND		1.0	0.15	ug/L			10/31/14 18:00	1
Bromoform	ND		1.0	0.56	ug/L			10/31/14 18:00	1
Bromomethane	ND		1.0	0.63	ug/L			10/31/14 18:00	1
2-Butanone	ND		10	4.1	ug/L			10/31/14 18:00	1
Carbon disulfide	ND		1.0	0.28	ug/L			10/31/14 18:00	1
Carbon tetrachloride	ND		1.0	0.17	ug/L			10/31/14 18:00	1
Chlorobenzene	ND		1.0	0.19	ug/L			10/31/14 18:00	1
Chloroethane	ND		1.0	0.33	ug/L			10/31/14 18:00	1
Chloroform	ND		1.0	0.21	ug/L			10/31/14 18:00	1
Chloromethane	ND		1.0	0.44	ug/L			10/31/14 18:00	1
Chloroprene	ND		2.0	0.26	ug/L			10/31/14 18:00	1
3-Chloro-1-propene	ND		2.0	0.84	ug/L			10/31/14 18:00	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/31/14 18:00	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/31/14 18:00	1
Dibromochloromethane	ND		1.0	0.43	ug/L			10/31/14 18:00	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.82	ug/L			10/31/14 18:00	1
Dibromomethane	ND		1.0	0.17	ug/L			10/31/14 18:00	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			10/31/14 18:00	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/31/14 18:00	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			10/31/14 18:00	1
1,1-Dichloroethene	ND		1.0	0.45	ug/L			10/31/14 18:00	1
1,2-Dichloroethene, Total	ND		2.0	0.20	ug/L			10/31/14 18:00	1
1,2-Dichloropropane	ND		1.0	0.22	ug/L			10/31/14 18:00	1
1,4-Dioxane	ND		50	40	ug/L			10/31/14 18:00	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/31/14 18:00	1
Ethylene Dibromide	ND		1.0	0.19	ug/L			10/31/14 18:00	1
Ethyl methacrylate	ND		1.0	0.44	ug/L			10/31/14 18:00	1
2-Hexanone	ND		10	3.9	ug/L			10/31/14 18:00	1
Iodomethane	ND		1.0	0.42	ug/L			10/31/14 18:00	1
Isobutanol	ND		50	12	ug/L			10/31/14 18:00	1
Methacrylonitrile	ND		2.0	0.70	ug/L			10/31/14 18:00	1
Methylene Chloride	ND		1.0	0.28	ug/L			10/31/14 18:00	1
Methyl methacrylate	ND		2.0	0.99	ug/L			10/31/14 18:00	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.6	ug/L			10/31/14 18:00	1
Propionitrile	ND		4.0	0.95	ug/L			10/31/14 18:00	1
Styrene	ND		1.0	0.45	ug/L			10/31/14 18:00	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/31/14 18:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			10/31/14 18:00	1
Tetrachloroethene	ND		1.0	0.20	ug/L			10/31/14 18:00	1
Toluene	ND		1.0	0.22	ug/L			10/31/14 18:00	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.31	ug/L			10/31/14 18:00	1
trans-1,2-Dichloroethene	ND		1.0	0.26	ug/L			10/31/14 18:00	1
trans-1,3-Dichloropropene	ND		1.0	0.56	ug/L			10/31/14 18:00	1
1,1,1-Trichloroethane	ND		1.0	0.22	ug/L			10/31/14 18:00	1

TestAmerica Canton

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
 Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW026R/102214**  
**Date Collected: 10/22/14 13:20**  
**Date Received: 10/23/14 08:45**

**Lab Sample ID: 240-43416-10**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.17	ug/L			10/31/14 18:00	1
Trichloroethene	ND		1.0	0.15	ug/L			10/31/14 18:00	1
Trichlorofluoromethane	ND		1.0	0.49	ug/L			10/31/14 18:00	1
1,2,3-Trichloropropane	ND		1.0	0.30	ug/L			10/31/14 18:00	1
Vinyl acetate	ND		2.0	0.41	ug/L			10/31/14 18:00	1
Vinyl chloride	ND		1.0	0.29	ug/L			10/31/14 18:00	1
Xylenes, Total	ND		2.0	0.43	ug/L			10/31/14 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		66 - 120					10/31/14 18:00	1
Dibromofluoromethane (Surr)	92		75 - 121					10/31/14 18:00	1
1,2-Dichloroethane-d4 (Surr)	94		63 - 129					10/31/14 18:00	1
Toluene-d8 (Surr)	93		74 - 120					10/31/14 18:00	1

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW026AR/102214**

**Lab Sample ID: 240-43416-11**

**Matrix: Water**

**Date Collected: 10/22/14 14:05**

**Date Received: 10/23/14 08:45**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.4	ug/L			10/31/14 18:23	1
Acetonitrile	ND		20	9.2	ug/L			10/31/14 18:23	1
Acrolein	ND		20	1.4	ug/L			10/31/14 18:23	1
Acrylonitrile	ND		20	6.3	ug/L			10/31/14 18:23	1
Benzene	ND		1.0	0.24	ug/L			10/31/14 18:23	1
Bromodichloromethane	ND		1.0	0.15	ug/L			10/31/14 18:23	1
Bromoform	ND		1.0	0.56	ug/L			10/31/14 18:23	1
Bromomethane	ND		1.0	0.63	ug/L			10/31/14 18:23	1
2-Butanone	ND		10	4.1	ug/L			10/31/14 18:23	1
<b>Carbon disulfide</b>	<b>3.0</b>		1.0	0.28	ug/L			10/31/14 18:23	1
Carbon tetrachloride	ND		1.0	0.17	ug/L			10/31/14 18:23	1
Chlorobenzene	ND		1.0	0.19	ug/L			10/31/14 18:23	1
Chloroethane	ND		1.0	0.33	ug/L			10/31/14 18:23	1
Chloroform	ND		1.0	0.21	ug/L			10/31/14 18:23	1
Chloromethane	ND		1.0	0.44	ug/L			10/31/14 18:23	1
Chloroprene	ND		2.0	0.26	ug/L			10/31/14 18:23	1
3-Chloro-1-propene	ND		2.0	0.84	ug/L			10/31/14 18:23	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/31/14 18:23	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/31/14 18:23	1
Dibromochloromethane	ND		1.0	0.43	ug/L			10/31/14 18:23	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.82	ug/L			10/31/14 18:23	1
Dibromomethane	ND		1.0	0.17	ug/L			10/31/14 18:23	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			10/31/14 18:23	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/31/14 18:23	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			10/31/14 18:23	1
1,1-Dichloroethene	ND		1.0	0.45	ug/L			10/31/14 18:23	1
1,2-Dichloroethene, Total	ND		2.0	0.20	ug/L			10/31/14 18:23	1
1,2-Dichloropropane	ND		1.0	0.22	ug/L			10/31/14 18:23	1
1,4-Dioxane	ND		50	40	ug/L			10/31/14 18:23	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/31/14 18:23	1
Ethylene Dibromide	ND		1.0	0.19	ug/L			10/31/14 18:23	1
Ethyl methacrylate	ND		1.0	0.44	ug/L			10/31/14 18:23	1
2-Hexanone	ND		10	3.9	ug/L			10/31/14 18:23	1
Iodomethane	ND		1.0	0.42	ug/L			10/31/14 18:23	1
Isobutanol	ND		50	12	ug/L			10/31/14 18:23	1
Methacrylonitrile	ND		2.0	0.70	ug/L			10/31/14 18:23	1
Methylene Chloride	ND		1.0	0.28	ug/L			10/31/14 18:23	1
Methyl methacrylate	ND		2.0	0.99	ug/L			10/31/14 18:23	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.6	ug/L			10/31/14 18:23	1
Propionitrile	ND		4.0	0.95	ug/L			10/31/14 18:23	1
Styrene	ND		1.0	0.45	ug/L			10/31/14 18:23	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/31/14 18:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			10/31/14 18:23	1
Tetrachloroethene	ND		1.0	0.20	ug/L			10/31/14 18:23	1
Toluene	ND		1.0	0.22	ug/L			10/31/14 18:23	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.31	ug/L			10/31/14 18:23	1
trans-1,2-Dichloroethene	ND		1.0	0.26	ug/L			10/31/14 18:23	1
trans-1,3-Dichloropropene	ND		1.0	0.56	ug/L			10/31/14 18:23	1
1,1,1-Trichloroethane	ND		1.0	0.22	ug/L			10/31/14 18:23	1

TestAmerica Canton

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
 Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW026AR/102214**  
**Date Collected: 10/22/14 14:05**  
**Date Received: 10/23/14 08:45**

**Lab Sample ID: 240-43416-11**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.17	ug/L			10/31/14 18:23	1
Trichloroethene	ND		1.0	0.15	ug/L			10/31/14 18:23	1
Trichlorofluoromethane	ND		1.0	0.49	ug/L			10/31/14 18:23	1
1,2,3-Trichloropropane	ND		1.0	0.30	ug/L			10/31/14 18:23	1
Vinyl acetate	ND		2.0	0.41	ug/L			10/31/14 18:23	1
Vinyl chloride	ND		1.0	0.29	ug/L			10/31/14 18:23	1
Xylenes, Total	ND		2.0	0.43	ug/L			10/31/14 18:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		66 - 120					10/31/14 18:23	1
Dibromofluoromethane (Surr)	92		75 - 121					10/31/14 18:23	1
1,2-Dichloroethane-d4 (Surr)	94		63 - 129					10/31/14 18:23	1
Toluene-d8 (Surr)	90		74 - 120					10/31/14 18:23	1

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW001R/102214**

**Lab Sample ID: 240-43416-12**

**Matrix: Water**

**Date Collected: 10/22/14 15:05**

**Date Received: 10/23/14 08:45**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.4	ug/L			10/31/14 18:45	1
Acetonitrile	ND		20	9.2	ug/L			10/31/14 18:45	1
Acrolein	ND		20	1.4	ug/L			10/31/14 18:45	1
Acrylonitrile	ND		20	6.3	ug/L			10/31/14 18:45	1
Benzene	ND		1.0	0.24	ug/L			10/31/14 18:45	1
Bromodichloromethane	ND		1.0	0.15	ug/L			10/31/14 18:45	1
Bromoform	ND		1.0	0.56	ug/L			10/31/14 18:45	1
Bromomethane	ND		1.0	0.63	ug/L			10/31/14 18:45	1
2-Butanone	ND		10	4.1	ug/L			10/31/14 18:45	1
Carbon disulfide	ND		1.0	0.28	ug/L			10/31/14 18:45	1
Carbon tetrachloride	ND		1.0	0.17	ug/L			10/31/14 18:45	1
Chlorobenzene	ND		1.0	0.19	ug/L			10/31/14 18:45	1
Chloroethane	ND		1.0	0.33	ug/L			10/31/14 18:45	1
Chloroform	ND		1.0	0.21	ug/L			10/31/14 18:45	1
Chloromethane	ND		1.0	0.44	ug/L			10/31/14 18:45	1
Chloroprene	ND		2.0	0.26	ug/L			10/31/14 18:45	1
3-Chloro-1-propene	ND		2.0	0.84	ug/L			10/31/14 18:45	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/31/14 18:45	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/31/14 18:45	1
Dibromochloromethane	ND		1.0	0.43	ug/L			10/31/14 18:45	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.82	ug/L			10/31/14 18:45	1
Dibromomethane	ND		1.0	0.17	ug/L			10/31/14 18:45	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			10/31/14 18:45	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/31/14 18:45	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			10/31/14 18:45	1
1,1-Dichloroethene	ND		1.0	0.45	ug/L			10/31/14 18:45	1
1,2-Dichloroethene, Total	ND		2.0	0.20	ug/L			10/31/14 18:45	1
1,2-Dichloropropane	ND		1.0	0.22	ug/L			10/31/14 18:45	1
1,4-Dioxane	ND		50	40	ug/L			10/31/14 18:45	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/31/14 18:45	1
Ethylene Dibromide	ND		1.0	0.19	ug/L			10/31/14 18:45	1
Ethyl methacrylate	ND		1.0	0.44	ug/L			10/31/14 18:45	1
2-Hexanone	ND		10	3.9	ug/L			10/31/14 18:45	1
Iodomethane	ND		1.0	0.42	ug/L			10/31/14 18:45	1
Isobutanol	ND		50	12	ug/L			10/31/14 18:45	1
Methacrylonitrile	ND		2.0	0.70	ug/L			10/31/14 18:45	1
Methylene Chloride	ND		1.0	0.28	ug/L			10/31/14 18:45	1
Methyl methacrylate	ND		2.0	0.99	ug/L			10/31/14 18:45	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.6	ug/L			10/31/14 18:45	1
Propionitrile	ND		4.0	0.95	ug/L			10/31/14 18:45	1
Styrene	ND		1.0	0.45	ug/L			10/31/14 18:45	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/31/14 18:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			10/31/14 18:45	1
Tetrachloroethene	ND		1.0	0.20	ug/L			10/31/14 18:45	1
Toluene	ND		1.0	0.22	ug/L			10/31/14 18:45	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.31	ug/L			10/31/14 18:45	1
trans-1,2-Dichloroethene	ND		1.0	0.26	ug/L			10/31/14 18:45	1
trans-1,3-Dichloropropene	ND		1.0	0.56	ug/L			10/31/14 18:45	1
1,1,1-Trichloroethane	ND		1.0	0.22	ug/L			10/31/14 18:45	1

TestAmerica Canton

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
 Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW001R/102214**  
**Date Collected: 10/22/14 15:05**  
**Date Received: 10/23/14 08:45**

**Lab Sample ID: 240-43416-12**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.17	ug/L			10/31/14 18:45	1
Trichloroethene	ND		1.0	0.15	ug/L			10/31/14 18:45	1
Trichlorofluoromethane	ND		1.0	0.49	ug/L			10/31/14 18:45	1
1,2,3-Trichloropropane	ND		1.0	0.30	ug/L			10/31/14 18:45	1
Vinyl acetate	ND		2.0	0.41	ug/L			10/31/14 18:45	1
Vinyl chloride	ND		1.0	0.29	ug/L			10/31/14 18:45	1
Xylenes, Total	ND		2.0	0.43	ug/L			10/31/14 18:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		66 - 120					10/31/14 18:45	1
Dibromofluoromethane (Surr)	92		75 - 121					10/31/14 18:45	1
1,2-Dichloroethane-d4 (Surr)	93		63 - 129					10/31/14 18:45	1
Toluene-d8 (Surr)	92		74 - 120					10/31/14 18:45	1

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW015BR/102214**

**Lab Sample ID: 240-43416-13**

**Matrix: Water**

**Date Collected: 10/22/14 12:15**

**Date Received: 10/23/14 08:45**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		130	46	ug/L			10/31/14 19:07	13.33
Acetonitrile	ND		270	120	ug/L			10/31/14 19:07	13.33
Acrolein	ND		270	19	ug/L			10/31/14 19:07	13.33
Acrylonitrile	ND		270	84	ug/L			10/31/14 19:07	13.33
Benzene	ND		13	3.2	ug/L			10/31/14 19:07	13.33
Bromodichloromethane	ND		13	2.0	ug/L			10/31/14 19:07	13.33
Bromoform	ND		13	7.5	ug/L			10/31/14 19:07	13.33
Bromomethane	ND		13	8.4	ug/L			10/31/14 19:07	13.33
2-Butanone	ND		130	54	ug/L			10/31/14 19:07	13.33
Carbon disulfide	ND		13	3.7	ug/L			10/31/14 19:07	13.33
Carbon tetrachloride	ND		13	2.3	ug/L			10/31/14 19:07	13.33
Chlorobenzene	ND		13	2.5	ug/L			10/31/14 19:07	13.33
Chloroethane	ND		13	4.4	ug/L			10/31/14 19:07	13.33
Chloroform	ND		13	2.8	ug/L			10/31/14 19:07	13.33
Chloromethane	ND		13	5.9	ug/L			10/31/14 19:07	13.33
Chloroprene	ND		27	3.5	ug/L			10/31/14 19:07	13.33
3-Chloro-1-propene	ND		27	11	ug/L			10/31/14 19:07	13.33
cis-1,2-Dichloroethene	ND		13	2.7	ug/L			10/31/14 19:07	13.33
cis-1,3-Dichloropropene	ND		13	6.1	ug/L			10/31/14 19:07	13.33
Dibromochloromethane	ND		13	5.7	ug/L			10/31/14 19:07	13.33
1,2-Dibromo-3-Chloropropane	ND		27	11	ug/L			10/31/14 19:07	13.33
Dibromomethane	ND		13	2.3	ug/L			10/31/14 19:07	13.33
Dichlorodifluoromethane	ND		13	6.7	ug/L			10/31/14 19:07	13.33
1,1-Dichloroethane	ND		13	3.5	ug/L			10/31/14 19:07	13.33
<b>1,2-Dichloroethane</b>	<b>300</b>		13	2.7	ug/L			10/31/14 19:07	13.33
1,1-Dichloroethene	ND		13	6.0	ug/L			10/31/14 19:07	13.33
1,2-Dichloroethene, Total	ND		27	2.7	ug/L			10/31/14 19:07	13.33
1,2-Dichloropropane	ND		13	2.9	ug/L			10/31/14 19:07	13.33
<b>1,4-Dioxane</b>	<b>1300</b>		670	530	ug/L			10/31/14 19:07	13.33
Ethylbenzene	ND		13	3.1	ug/L			10/31/14 19:07	13.33
Ethylene Dibromide	ND		13	2.5	ug/L			10/31/14 19:07	13.33
Ethyl methacrylate	ND		13	5.9	ug/L			10/31/14 19:07	13.33
2-Hexanone	ND		130	52	ug/L			10/31/14 19:07	13.33
Iodomethane	ND		13	5.6	ug/L			10/31/14 19:07	13.33
Isobutanol	ND		670	160	ug/L			10/31/14 19:07	13.33
Methacrylonitrile	ND		27	9.3	ug/L			10/31/14 19:07	13.33
<b>Methylene Chloride</b>	<b>18 B</b>		13	3.7	ug/L			10/31/14 19:07	13.33
Methyl methacrylate	ND		27	13	ug/L			10/31/14 19:07	13.33
4-Methyl-2-pentanone (MIBK)	ND		130	48	ug/L			10/31/14 19:07	13.33
Propionitrile	ND		53	13	ug/L			10/31/14 19:07	13.33
Styrene	ND		13	6.0	ug/L			10/31/14 19:07	13.33
1,1,1,2-Tetrachloroethane	ND		13	3.7	ug/L			10/31/14 19:07	13.33
1,1,2,2-Tetrachloroethane	ND		13	2.9	ug/L			10/31/14 19:07	13.33
Tetrachloroethene	ND		13	2.7	ug/L			10/31/14 19:07	13.33
Toluene	ND		13	2.9	ug/L			10/31/14 19:07	13.33
trans-1,4-Dichloro-2-butene	ND		13	4.1	ug/L			10/31/14 19:07	13.33
trans-1,2-Dichloroethene	ND		13	3.5	ug/L			10/31/14 19:07	13.33
trans-1,3-Dichloropropene	ND		13	7.5	ug/L			10/31/14 19:07	13.33
1,1,1-Trichloroethane	ND		13	2.9	ug/L			10/31/14 19:07	13.33

TestAmerica Canton

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
 Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW015BR/102214**  
**Date Collected: 10/22/14 12:15**  
**Date Received: 10/23/14 08:45**

**Lab Sample ID: 240-43416-13**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		13	2.3	ug/L			10/31/14 19:07	13.33
Trichloroethene	ND		13	2.0	ug/L			10/31/14 19:07	13.33
Trichlorofluoromethane	ND		13	6.5	ug/L			10/31/14 19:07	13.33
1,2,3-Trichloropropane	ND		13	4.0	ug/L			10/31/14 19:07	13.33
Vinyl acetate	ND		27	5.5	ug/L			10/31/14 19:07	13.33
<b>Vinyl chloride</b>	<b>6.4 J</b>		13	3.9	ug/L			10/31/14 19:07	13.33
Xylenes, Total	ND		27	5.7	ug/L			10/31/14 19:07	13.33
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		66 - 120					10/31/14 19:07	13.33
Dibromofluoromethane (Surr)	92		75 - 121					10/31/14 19:07	13.33
1,2-Dichloroethane-d4 (Surr)	93		63 - 129					10/31/14 19:07	13.33
Toluene-d8 (Surr)	90		74 - 120					10/31/14 19:07	13.33

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW015R/102214**

**Lab Sample ID: 240-43416-14**

**Matrix: Water**

**Date Collected: 10/22/14 13:15**

**Date Received: 10/23/14 08:45**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		330	110	ug/L			10/31/14 19:30	33.33
Acetonitrile	ND		670	310	ug/L			10/31/14 19:30	33.33
Acrolein	ND		670	48	ug/L			10/31/14 19:30	33.33
Acrylonitrile	ND		670	210	ug/L			10/31/14 19:30	33.33
<b>Benzene</b>	<b>23 J</b>		33	8.0	ug/L			10/31/14 19:30	33.33
Bromodichloromethane	ND		33	5.0	ug/L			10/31/14 19:30	33.33
Bromoform	ND		33	19	ug/L			10/31/14 19:30	33.33
Bromomethane	ND		33	21	ug/L			10/31/14 19:30	33.33
2-Butanone	ND		330	140	ug/L			10/31/14 19:30	33.33
Carbon disulfide	ND		33	9.3	ug/L			10/31/14 19:30	33.33
<b>Carbon tetrachloride</b>	<b>17 J</b>		33	5.7	ug/L			10/31/14 19:30	33.33
Chlorobenzene	ND		33	6.3	ug/L			10/31/14 19:30	33.33
Chloroethane	ND		33	11	ug/L			10/31/14 19:30	33.33
<b>Chloroform</b>	<b>370</b>		33	7.0	ug/L			10/31/14 19:30	33.33
Chloromethane	ND		33	15	ug/L			10/31/14 19:30	33.33
Chloroprene	ND		67	8.7	ug/L			10/31/14 19:30	33.33
3-Chloro-1-propene	ND		67	28	ug/L			10/31/14 19:30	33.33
<b>cis-1,2-Dichloroethene</b>	<b>78</b>		33	6.7	ug/L			10/31/14 19:30	33.33
cis-1,3-Dichloropropene	ND		33	15	ug/L			10/31/14 19:30	33.33
Dibromochloromethane	ND		33	14	ug/L			10/31/14 19:30	33.33
1,2-Dibromo-3-Chloropropane	ND		67	27	ug/L			10/31/14 19:30	33.33
Dibromomethane	ND		33	5.7	ug/L			10/31/14 19:30	33.33
Dichlorodifluoromethane	ND		33	17	ug/L			10/31/14 19:30	33.33
<b>1,1-Dichloroethane</b>	<b>26 J</b>		33	8.7	ug/L			10/31/14 19:30	33.33
<b>1,2-Dichloroethane</b>	<b>870</b>		33	6.7	ug/L			10/31/14 19:30	33.33
1,1-Dichloroethene	ND		33	15	ug/L			10/31/14 19:30	33.33
<b>1,2-Dichloroethene, Total</b>	<b>78</b>		67	6.7	ug/L			10/31/14 19:30	33.33
1,2-Dichloropropene	ND		33	7.3	ug/L			10/31/14 19:30	33.33
1,4-Dioxane	ND		1700	1300	ug/L			10/31/14 19:30	33.33
Ethylbenzene	ND		33	7.7	ug/L			10/31/14 19:30	33.33
Ethylene Dibromide	ND		33	6.3	ug/L			10/31/14 19:30	33.33
Ethyl methacrylate	ND		33	15	ug/L			10/31/14 19:30	33.33
2-Hexanone	ND		330	130	ug/L			10/31/14 19:30	33.33
Iodomethane	ND		33	14	ug/L			10/31/14 19:30	33.33
Isobutanol	ND		1700	390	ug/L			10/31/14 19:30	33.33
Methacrylonitrile	ND		67	23	ug/L			10/31/14 19:30	33.33
<b>Methylene Chloride</b>	<b>30 J B</b>		33	9.3	ug/L			10/31/14 19:30	33.33
Methyl methacrylate	ND		67	33	ug/L			10/31/14 19:30	33.33
4-Methyl-2-pentanone (MIBK)	ND		330	120	ug/L			10/31/14 19:30	33.33
Propionitrile	ND		130	32	ug/L			10/31/14 19:30	33.33
Styrene	ND		33	15	ug/L			10/31/14 19:30	33.33
1,1,1,2-Tetrachloroethane	ND		33	9.3	ug/L			10/31/14 19:30	33.33
<b>1,1,2,2-Tetrachloroethane</b>	<b>23 J</b>		33	7.3	ug/L			10/31/14 19:30	33.33
<b>Tetrachloroethene</b>	<b>72</b>		33	6.7	ug/L			10/31/14 19:30	33.33
Toluene	ND		33	7.3	ug/L			10/31/14 19:30	33.33
trans-1,4-Dichloro-2-butene	ND		33	10	ug/L			10/31/14 19:30	33.33
trans-1,2-Dichloroethene	ND		33	8.7	ug/L			10/31/14 19:30	33.33
trans-1,3-Dichloropropene	ND		33	19	ug/L			10/31/14 19:30	33.33
<b>1,1,1-Trichloroethane</b>	<b>16 J</b>		33	7.3	ug/L			10/31/14 19:30	33.33

TestAmerica Canton

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
 Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW015R/102214**  
**Date Collected: 10/22/14 13:15**  
**Date Received: 10/23/14 08:45**

**Lab Sample ID: 240-43416-14**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		33	5.7	ug/L			10/31/14 19:30	33.33
<b>Trichloroethene</b>	<b>580</b>		33	5.0	ug/L			10/31/14 19:30	33.33
Trichlorofluoromethane	ND		33	16	ug/L			10/31/14 19:30	33.33
1,2,3-Trichloropropane	ND		33	10	ug/L			10/31/14 19:30	33.33
Vinyl acetate	ND		67	14	ug/L			10/31/14 19:30	33.33
Vinyl chloride	ND		33	9.7	ug/L			10/31/14 19:30	33.33
Xylenes, Total	ND		67	14	ug/L			10/31/14 19:30	33.33
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		66 - 120					10/31/14 19:30	33.33
Dibromofluoromethane (Surr)	92		75 - 121					10/31/14 19:30	33.33
1,2-Dichloroethane-d4 (Surr)	94		63 - 129					10/31/14 19:30	33.33
Toluene-d8 (Surr)	94		74 - 120					10/31/14 19:30	33.33

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW021A/102214**

**Lab Sample ID: 240-43416-15**

**Matrix: Water**

**Date Collected: 10/22/14 14:15**

**Date Received: 10/23/14 08:45**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.4	ug/L			10/31/14 19:53	1
Acetonitrile	ND		20	9.2	ug/L			10/31/14 19:53	1
Acrolein	ND		20	1.4	ug/L			10/31/14 19:53	1
Acrylonitrile	ND		20	6.3	ug/L			10/31/14 19:53	1
Benzene	ND		1.0	0.24	ug/L			10/31/14 19:53	1
Bromodichloromethane	ND		1.0	0.15	ug/L			10/31/14 19:53	1
Bromoform	ND		1.0	0.56	ug/L			10/31/14 19:53	1
Bromomethane	ND		1.0	0.63	ug/L			10/31/14 19:53	1
2-Butanone	ND		10	4.1	ug/L			10/31/14 19:53	1
Carbon disulfide	ND		1.0	0.28	ug/L			10/31/14 19:53	1
Carbon tetrachloride	ND		1.0	0.17	ug/L			10/31/14 19:53	1
Chlorobenzene	ND		1.0	0.19	ug/L			10/31/14 19:53	1
Chloroethane	ND		1.0	0.33	ug/L			10/31/14 19:53	1
Chloroform	ND		1.0	0.21	ug/L			10/31/14 19:53	1
Chloromethane	ND		1.0	0.44	ug/L			10/31/14 19:53	1
Chloroprene	ND		2.0	0.26	ug/L			10/31/14 19:53	1
3-Chloro-1-propene	ND		2.0	0.84	ug/L			10/31/14 19:53	1
<b>cis-1,2-Dichloroethene</b>	<b>0.24</b>	<b>J</b>	1.0	0.20	ug/L			10/31/14 19:53	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/31/14 19:53	1
Dibromochloromethane	ND		1.0	0.43	ug/L			10/31/14 19:53	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.82	ug/L			10/31/14 19:53	1
Dibromomethane	ND		1.0	0.17	ug/L			10/31/14 19:53	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			10/31/14 19:53	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/31/14 19:53	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			10/31/14 19:53	1
1,1-Dichloroethene	ND		1.0	0.45	ug/L			10/31/14 19:53	1
<b>1,2-Dichloroethene, Total</b>	<b>0.24</b>	<b>J</b>	2.0	0.20	ug/L			10/31/14 19:53	1
1,2-Dichloropropane	ND		1.0	0.22	ug/L			10/31/14 19:53	1
1,4-Dioxane	ND		50	40	ug/L			10/31/14 19:53	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/31/14 19:53	1
Ethylene Dibromide	ND		1.0	0.19	ug/L			10/31/14 19:53	1
Ethyl methacrylate	ND		1.0	0.44	ug/L			10/31/14 19:53	1
2-Hexanone	ND		10	3.9	ug/L			10/31/14 19:53	1
Iodomethane	ND		1.0	0.42	ug/L			10/31/14 19:53	1
Isobutanol	ND		50	12	ug/L			10/31/14 19:53	1
Methacrylonitrile	ND		2.0	0.70	ug/L			10/31/14 19:53	1
Methylene Chloride	ND		1.0	0.28	ug/L			10/31/14 19:53	1
Methyl methacrylate	ND		2.0	0.99	ug/L			10/31/14 19:53	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.6	ug/L			10/31/14 19:53	1
Propionitrile	ND		4.0	0.95	ug/L			10/31/14 19:53	1
Styrene	ND		1.0	0.45	ug/L			10/31/14 19:53	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/31/14 19:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			10/31/14 19:53	1
Tetrachloroethene	ND		1.0	0.20	ug/L			10/31/14 19:53	1
Toluene	ND		1.0	0.22	ug/L			10/31/14 19:53	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.31	ug/L			10/31/14 19:53	1
trans-1,2-Dichloroethene	ND		1.0	0.26	ug/L			10/31/14 19:53	1
trans-1,3-Dichloropropene	ND		1.0	0.56	ug/L			10/31/14 19:53	1
1,1,1-Trichloroethane	ND		1.0	0.22	ug/L			10/31/14 19:53	1

TestAmerica Canton

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
 Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW021A/102214**  
**Date Collected: 10/22/14 14:15**  
**Date Received: 10/23/14 08:45**

**Lab Sample ID: 240-43416-15**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.17	ug/L			10/31/14 19:53	1
Trichloroethene	ND		1.0	0.15	ug/L			10/31/14 19:53	1
Trichlorofluoromethane	ND		1.0	0.49	ug/L			10/31/14 19:53	1
1,2,3-Trichloropropane	ND		1.0	0.30	ug/L			10/31/14 19:53	1
Vinyl acetate	ND		2.0	0.41	ug/L			10/31/14 19:53	1
Vinyl chloride	ND		1.0	0.29	ug/L			10/31/14 19:53	1
Xylenes, Total	ND		2.0	0.43	ug/L			10/31/14 19:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		66 - 120					10/31/14 19:53	1
Dibromofluoromethane (Surr)	90		75 - 121					10/31/14 19:53	1
1,2-Dichloroethane-d4 (Surr)	94		63 - 129					10/31/14 19:53	1
Toluene-d8 (Surr)	90		74 - 120					10/31/14 19:53	1

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW025/102214**

**Lab Sample ID: 240-43416-16**

**Matrix: Water**

**Date Collected: 10/22/14 15:00**

**Date Received: 10/23/14 08:45**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.4	ug/L			10/31/14 20:15	1
Acetonitrile	ND		20	9.2	ug/L			10/31/14 20:15	1
Acrolein	ND		20	1.4	ug/L			10/31/14 20:15	1
Acrylonitrile	ND		20	6.3	ug/L			10/31/14 20:15	1
Benzene	ND		1.0	0.24	ug/L			10/31/14 20:15	1
Bromodichloromethane	ND		1.0	0.15	ug/L			10/31/14 20:15	1
Bromoform	ND		1.0	0.56	ug/L			10/31/14 20:15	1
Bromomethane	ND		1.0	0.63	ug/L			10/31/14 20:15	1
2-Butanone	ND		10	4.1	ug/L			10/31/14 20:15	1
Carbon disulfide	ND		1.0	0.28	ug/L			10/31/14 20:15	1
Carbon tetrachloride	ND		1.0	0.17	ug/L			10/31/14 20:15	1
Chlorobenzene	ND		1.0	0.19	ug/L			10/31/14 20:15	1
Chloroethane	ND		1.0	0.33	ug/L			10/31/14 20:15	1
Chloroform	ND		1.0	0.21	ug/L			10/31/14 20:15	1
Chloromethane	ND		1.0	0.44	ug/L			10/31/14 20:15	1
Chloroprene	ND		2.0	0.26	ug/L			10/31/14 20:15	1
3-Chloro-1-propene	ND		2.0	0.84	ug/L			10/31/14 20:15	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/31/14 20:15	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/31/14 20:15	1
Dibromochloromethane	ND		1.0	0.43	ug/L			10/31/14 20:15	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.82	ug/L			10/31/14 20:15	1
Dibromomethane	ND		1.0	0.17	ug/L			10/31/14 20:15	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			10/31/14 20:15	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/31/14 20:15	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			10/31/14 20:15	1
1,1-Dichloroethene	ND		1.0	0.45	ug/L			10/31/14 20:15	1
1,2-Dichloroethene, Total	ND		2.0	0.20	ug/L			10/31/14 20:15	1
1,2-Dichloropropane	ND		1.0	0.22	ug/L			10/31/14 20:15	1
1,4-Dioxane	ND		50	40	ug/L			10/31/14 20:15	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/31/14 20:15	1
Ethylene Dibromide	ND		1.0	0.19	ug/L			10/31/14 20:15	1
Ethyl methacrylate	ND		1.0	0.44	ug/L			10/31/14 20:15	1
2-Hexanone	ND		10	3.9	ug/L			10/31/14 20:15	1
Iodomethane	ND		1.0	0.42	ug/L			10/31/14 20:15	1
Isobutanol	ND		50	12	ug/L			10/31/14 20:15	1
Methacrylonitrile	ND		2.0	0.70	ug/L			10/31/14 20:15	1
Methylene Chloride	ND		1.0	0.28	ug/L			10/31/14 20:15	1
Methyl methacrylate	ND		2.0	0.99	ug/L			10/31/14 20:15	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.6	ug/L			10/31/14 20:15	1
Propionitrile	ND		4.0	0.95	ug/L			10/31/14 20:15	1
Styrene	ND		1.0	0.45	ug/L			10/31/14 20:15	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			10/31/14 20:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			10/31/14 20:15	1
Tetrachloroethene	ND		1.0	0.20	ug/L			10/31/14 20:15	1
Toluene	ND		1.0	0.22	ug/L			10/31/14 20:15	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.31	ug/L			10/31/14 20:15	1
trans-1,2-Dichloroethene	ND		1.0	0.26	ug/L			10/31/14 20:15	1
trans-1,3-Dichloropropene	ND		1.0	0.56	ug/L			10/31/14 20:15	1
1,1,1-Trichloroethane	ND		1.0	0.22	ug/L			10/31/14 20:15	1

TestAmerica Canton

# Client Sample Results

Client: TRC Environmental Corp-Payne Firm  
 Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW025/102214**  
**Date Collected: 10/22/14 15:00**  
**Date Received: 10/23/14 08:45**

**Lab Sample ID: 240-43416-16**  
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.17	ug/L			10/31/14 20:15	1
<b>Trichloroethene</b>	<b>0.16</b>	<b>J</b>	1.0	0.15	ug/L			10/31/14 20:15	1
Trichlorofluoromethane	ND		1.0	0.49	ug/L			10/31/14 20:15	1
1,2,3-Trichloropropane	ND		1.0	0.30	ug/L			10/31/14 20:15	1
Vinyl acetate	ND		2.0	0.41	ug/L			10/31/14 20:15	1
Vinyl chloride	ND		1.0	0.29	ug/L			10/31/14 20:15	1
Xylenes, Total	ND		2.0	0.43	ug/L			10/31/14 20:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		66 - 120					10/31/14 20:15	1
Dibromofluoromethane (Surr)	93		75 - 121					10/31/14 20:15	1
1,2-Dichloroethane-d4 (Surr)	94		63 - 129					10/31/14 20:15	1
Toluene-d8 (Surr)	92		74 - 120					10/31/14 20:15	1

# Surrogate Summary

Client: TRC Environmental Corp-Payne Firm  
 Project/Site: EMD

TestAmerica Job ID: 240-43416-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (66-120)	DBFM (75-121)	12DCE (63-129)	TOL (74-120)
240-43416-1	MW031B/102214	88	86	77	80
240-43416-1 MS	MW031B/102214	87	84	76	79
240-43416-1 MSD	MW031B/102214	93	88	79	83
240-43416-2	FB01/102214	96	92	85	90
240-43416-3	RIN01/102214	94	92	83	85
240-43416-4	DUP01/102214	91	90	92	92
240-43416-5	TB02/102214	89	92	90	92
240-43416-6	MW044/102214	89	91	92	90
240-43416-7	MW041/102214	87	91	93	93
240-43416-8	MW031C/102214	94	94	94	89
240-43416-8 MS	MW031C/102214	97	96	91	94
240-43416-8 MSD	MW031C/102214	100	93	89	94
240-43416-9	MW011A/102214	87	89	91	93
240-43416-10	MW026R/102214	87	92	94	93
240-43416-11	MW026AR/102214	91	92	94	90
240-43416-12	MW001R/102214	89	92	93	92
240-43416-13	MW015BR/102214	89	92	93	90
240-43416-14	MW015R/102214	88	92	94	94
240-43416-15	MW021A/102214	91	90	94	90
240-43416-16	MW025/102214	91	93	94	92
LCS 240-153932/4	Lab Control Sample	98	95	88	92
LCS 240-154314/4	Lab Control Sample	95	87	87	94
LCS 240-154439/4	Lab Control Sample	97	90	92	93
MB 240-153932/6	Method Blank	93	87	82	86
MB 240-154314/6	Method Blank	90	89	92	92
MB 240-154439/6	Method Blank	92	91	93	92

### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

# QC Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 240-153932/6**

**Matrix: Water**

**Analysis Batch: 153932**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	Dil Fac						
	Result	Qualifier		RL	MDL	Unit	D	Prepared	Analyzed
Acetone	ND		1	10	3.4	ug/L		10/29/14 16:30	
Acetonitrile	ND		1	20	9.2	ug/L		10/29/14 16:30	
Acrolein	ND		1	20	1.4	ug/L		10/29/14 16:30	
Acrylonitrile	ND		1	20	6.3	ug/L		10/29/14 16:30	
Benzene	ND		1	1.0	0.24	ug/L		10/29/14 16:30	
Bromodichloromethane	ND		1	1.0	0.15	ug/L		10/29/14 16:30	
Bromoform	ND		1	1.0	0.56	ug/L		10/29/14 16:30	
Bromomethane	ND		1	1.0	0.63	ug/L		10/29/14 16:30	
2-Butanone	ND		1	10	4.1	ug/L		10/29/14 16:30	
Carbon disulfide	ND		1	1.0	0.28	ug/L		10/29/14 16:30	
Carbon tetrachloride	ND		1	1.0	0.17	ug/L		10/29/14 16:30	
Chlorobenzene	ND		1	1.0	0.19	ug/L		10/29/14 16:30	
Chloroethane	ND		1	1.0	0.33	ug/L		10/29/14 16:30	
Chloroform	ND		1	1.0	0.21	ug/L		10/29/14 16:30	
Chloromethane	ND		1	1.0	0.44	ug/L		10/29/14 16:30	
Chloroprene	ND		1	2.0	0.26	ug/L		10/29/14 16:30	
3-Chloro-1-propene	ND		1	2.0	0.84	ug/L		10/29/14 16:30	
cis-1,2-Dichloroethene	ND		1	1.0	0.20	ug/L		10/29/14 16:30	
cis-1,3-Dichloropropene	ND		1	1.0	0.46	ug/L		10/29/14 16:30	
Dibromochloromethane	ND		1	1.0	0.43	ug/L		10/29/14 16:30	
1,2-Dibromo-3-Chloropropane	ND		1	2.0	0.82	ug/L		10/29/14 16:30	
Dibromomethane	ND		1	1.0	0.17	ug/L		10/29/14 16:30	
Dichlorodifluoromethane	ND		1	1.0	0.50	ug/L		10/29/14 16:30	
1,1-Dichloroethane	ND		1	1.0	0.26	ug/L		10/29/14 16:30	
1,2-Dichloroethane	ND		1	1.0	0.20	ug/L		10/29/14 16:30	
1,1-Dichloroethene	ND		1	1.0	0.45	ug/L		10/29/14 16:30	
1,2-Dichloroethene, Total	ND		1	2.0	0.20	ug/L		10/29/14 16:30	
1,2-Dichloropropane	ND		1	1.0	0.22	ug/L		10/29/14 16:30	
1,4-Dioxane	ND		1	50	40	ug/L		10/29/14 16:30	
Ethylbenzene	ND		1	1.0	0.23	ug/L		10/29/14 16:30	
Ethylene Dibromide	ND		1	1.0	0.19	ug/L		10/29/14 16:30	
Ethyl methacrylate	ND		1	1.0	0.44	ug/L		10/29/14 16:30	
2-Hexanone	ND		1	10	3.9	ug/L		10/29/14 16:30	
Iodomethane	ND		1	1.0	0.42	ug/L		10/29/14 16:30	
Isobutanol	ND		1	50	12	ug/L		10/29/14 16:30	
Methacrylonitrile	ND		1	2.0	0.70	ug/L		10/29/14 16:30	
Methylene Chloride	ND		1	1.0	0.28	ug/L		10/29/14 16:30	
Methyl methacrylate	ND		1	2.0	0.99	ug/L		10/29/14 16:30	
4-Methyl-2-pentanone (MIBK)	ND		1	10	3.6	ug/L		10/29/14 16:30	
Propionitrile	ND		1	4.0	0.95	ug/L		10/29/14 16:30	
Styrene	ND		1	1.0	0.45	ug/L		10/29/14 16:30	
1,1,1,2-Tetrachloroethane	ND		1	1.0	0.28	ug/L		10/29/14 16:30	
1,1,2,2-Tetrachloroethane	ND		1	1.0	0.22	ug/L		10/29/14 16:30	
Tetrachloroethene	ND		1	1.0	0.20	ug/L		10/29/14 16:30	
Toluene	ND		1	1.0	0.22	ug/L		10/29/14 16:30	
trans-1,4-Dichloro-2-butene	ND		1	1.0	0.31	ug/L		10/29/14 16:30	
trans-1,2-Dichloroethene	ND		1	1.0	0.26	ug/L		10/29/14 16:30	
trans-1,3-Dichloropropene	ND		1	1.0	0.56	ug/L		10/29/14 16:30	

TestAmerica Canton

# QC Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 240-153932/6**

**Matrix: Water**

**Analysis Batch: 153932**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
1,1,1-Trichloroethane	ND				1.0	0.22	ug/L			10/29/14 16:30	1
1,1,2-Trichloroethane	ND				1.0	0.17	ug/L			10/29/14 16:30	1
Trichloroethene	ND				1.0	0.15	ug/L			10/29/14 16:30	1
Trichlorofluoromethane	ND				1.0	0.49	ug/L			10/29/14 16:30	1
1,2,3-Trichloropropane	ND				1.0	0.30	ug/L			10/29/14 16:30	1
Vinyl acetate	ND				2.0	0.41	ug/L			10/29/14 16:30	1
Vinyl chloride	ND				1.0	0.29	ug/L			10/29/14 16:30	1
Xylenes, Total	ND				2.0	0.43	ug/L			10/29/14 16:30	1
Surrogate	MB	MB	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
	Result	Qualifier									
4-Bromofluorobenzene (Surr)	93		66 - 120						10/29/14 16:30	1	
Dibromofluoromethane (Surr)	87		75 - 121						10/29/14 16:30	1	
1,2-Dichloroethane-d4 (Surr)	82		63 - 129						10/29/14 16:30	1	
Toluene-d8 (Surr)	86		74 - 120						10/29/14 16:30	1	

**Lab Sample ID: LCS 240-153932/4**

**Matrix: Water**

**Analysis Batch: 153932**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Acetone	20.0	16.1		ug/L		81	43 - 136
Acrolein	50.0	54.6		ug/L		109	51 - 170
Acrylonitrile	100	102		ug/L		102	66 - 132
Benzene	10.0	11.3		ug/L		113	80 - 120
Bromodichloromethane	10.0	10.8		ug/L		108	72 - 121
Bromoform	10.0	10.3		ug/L		103	40 - 131
Bromomethane	10.0	11.1		ug/L		111	11 - 185
2-Butanone	20.0	18.7		ug/L		94	60 - 126
Carbon disulfide	10.0	12.2		ug/L		122	62 - 142
Carbon tetrachloride	10.0	12.2		ug/L		122	66 - 128
Chlorobenzene	10.0	11.0		ug/L		110	80 - 120
Chloroethane	10.0	10.5		ug/L		105	25 - 153
Chloroform	10.0	11.3		ug/L		113	79 - 120
Chloromethane	10.0	8.45		ug/L		85	44 - 126
3-Chloro-1-propene	10.0	10.5		ug/L		105	40 - 160
cis-1,2-Dichloroethene	10.0	11.4		ug/L		114	80 - 120
cis-1,3-Dichloropropene	10.0	11.6		ug/L		116	61 - 120
Dibromochloromethane	10.0	10.4		ug/L		104	64 - 120
1,2-Dibromo-3-Chloropropane	10.0	9.38		ug/L		94	42 - 136
Dibromomethane	10.0	10.8		ug/L		108	80 - 120
Dichlorodifluoromethane	10.0	7.21		ug/L		72	19 - 129
1,1-Dichloroethane	10.0	11.5		ug/L		115	80 - 120
1,2-Dichloroethane	10.0	10.8		ug/L		108	71 - 127
1,1-Dichloroethene	10.0	11.6		ug/L		116	78 - 131
1,2-Dichloroethene, Total	20.0	23.2		ug/L		116	80 - 120
1,2-Dichloropropene	10.0	11.0		ug/L		110	80 - 120
1,4-Dioxane	200	144		ug/L		72	50 - 150
Ethylbenzene	10.0	11.3		ug/L		113	80 - 120

TestAmerica Canton

# QC Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 240-153932/4**

**Matrix: Water**

**Analysis Batch: 153932**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits	5
		Result	Qualifier					
Ethylene Dibromide	10.0	10.0		ug/L		100	79 - 120	6
Ethyl methacrylate	10.0	11.4		ug/L		114	40 - 160	7
2-Hexanone	20.0	17.3		ug/L		87	55 - 133	8
Iodomethane	10.0	13.0		ug/L		130	72 - 141	9
Isobutanol	250	203		ug/L		81	40 - 160	10
Methylene Chloride	10.0	11.7		ug/L		117	66 - 131	11
4-Methyl-2-pentanone (MIBK)	20.0	18.7		ug/L		94	63 - 128	12
m-Xylene & p-Xylene	10.0	11.0		ug/L		110	80 - 120	13
o-Xylene	10.0	11.0		ug/L		110	80 - 120	14
Styrene	10.0	11.4		ug/L		114	79 - 120	
1,1,1,2-Tetrachloroethane	10.0	10.9		ug/L		109	72 - 120	
1,1,2,2-Tetrachloroethane	10.0	10.4		ug/L		104	68 - 120	
Tetrachloroethene	10.0	10.9		ug/L		109	79 - 120	
Toluene	10.0	11.0		ug/L		110	80 - 120	
trans-1,4-Dichloro-2-butene	10.0	10.3		ug/L		103	10 - 199	
trans-1,2-Dichloroethene	10.0	11.8		ug/L		118	80 - 120	
trans-1,3-Dichloropropene	10.0	11.4		ug/L		114	58 - 120	
1,1,1-Trichloroethane	10.0	12.1 *		ug/L		121	74 - 120	
1,1,2-Trichloroethane	10.0	10.6		ug/L		106	80 - 120	
Trichloroethene	10.0	11.8		ug/L		118	76 - 120	
Trichlorofluoromethane	10.0	10.6		ug/L		106	49 - 157	
1,2,3-Trichloropropane	10.0	10.4		ug/L		104	73 - 129	
Vinyl acetate	8.00	20.7 *		ug/L		259	46 - 161	
Vinyl chloride		8.53		ug/L		85	53 - 127	
Xylenes, Total	20.0	22.0		ug/L		110	80 - 120	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		66 - 120
Dibromofluoromethane (Surr)	95		75 - 121
1,2-Dichloroethane-d4 (Surr)	88		63 - 129
Toluene-d8 (Surr)	92		74 - 120

**Lab Sample ID: 240-43416-1 MS**

**Matrix: Water**

**Analysis Batch: 153932**

**Client Sample ID: MW031B/102214**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Acetone	ND		20.0	11.8		ug/L		59	33 - 145
Acrolein	ND		50.0	48.1		ug/L		96	47 - 168
Acrylonitrile	ND		100	82.7		ug/L		83	62 - 133
Benzene	0.32 J		10.0	9.73		ug/L		94	72 - 121
Bromodichloromethane	ND		10.0	8.72		ug/L		87	67 - 120
Bromoform	ND		10.0	7.97		ug/L		80	32 - 128
Bromomethane	ND		10.0	10.3		ug/L		103	10 - 186
2-Butanone	ND		20.0	13.6		ug/L		68	54 - 129
Carbon disulfide	ND		10.0	9.90		ug/L		99	57 - 147
Carbon tetrachloride	ND		10.0	10.3		ug/L		103	59 - 129
Chlorobenzene	ND		10.0	9.16		ug/L		92	80 - 120

TestAmerica Canton

# QC Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-43416-1 MS

Client Sample ID: MW031B/102214

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 153932

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits		
	Result	Qualifier	Added	Result	Qualifier						
Chloroethane	ND		10.0	9.66		ug/L		97	21 - 165		
Chloroform	0.42	J	10.0	10.1		ug/L		97	76 - 120		
Chloromethane	ND		10.0	7.74		ug/L		77	33 - 132		
3-Chloro-1-propene	ND		10.0	8.84		ug/L		88	10 - 160		
cis-1,2-Dichloroethene	7.3		10.0	16.7		ug/L		94	70 - 120		
cis-1,3-Dichloropropene	ND		10.0	8.99		ug/L		90	51 - 120		
Dibromochloromethane	ND		10.0	8.20		ug/L		82	56 - 120		
1,2-Dibromo-3-Chloropropane	ND		10.0	7.46		ug/L		75	32 - 139		
Dibromomethane	ND		10.0	8.79		ug/L		88	77 - 121		
Dichlorodifluoromethane	ND		10.0	6.56		ug/L		66	17 - 128		
1,1-Dichloroethane	ND		10.0	9.79		ug/L		98	79 - 120		
1,2-Dichloroethane	0.75	J	10.0	9.60		ug/L		89	68 - 129		
1,1-Dichloroethene	ND		10.0	9.85		ug/L		99	74 - 135		
1,2-Dichloroethene, Total	7.7		20.0	27.2		ug/L		98	75 - 120		
1,2-Dichloropropene	ND		10.0	9.07		ug/L		91	78 - 120		
1,4-Dioxane	390		200	526	E	ug/L		69	50 - 150		
Ethylbenzene	ND		10.0	9.10		ug/L		91	75 - 120		
Ethylene Dibromide	ND		10.0	8.24		ug/L		82	74 - 120		
Ethyl methacrylate	ND		10.0	8.65		ug/L		87	10 - 160		
2-Hexanone	ND		20.0	13.8		ug/L		69	47 - 139		
Iodomethane	ND		10.0	10.6		ug/L		106	66 - 144		
Isobutanol	ND		250	162		ug/L		65	40 - 160		
Methylene Chloride	ND		10.0	9.74		ug/L		97	63 - 128		
4-Methyl-2-pentanone (MIBK)	ND		20.0	15.2		ug/L		76	56 - 131		
m-Xylene & p-Xylene	ND		10.0	9.08		ug/L		91	75 - 120		
o-Xylene	ND		10.0	8.84		ug/L		88	76 - 120		
Styrene	ND		10.0	8.47		ug/L		85	71 - 120		
1,1,1,2-Tetrachloroethane	ND		10.0	8.69		ug/L		87	64 - 120		
1,1,2,2-Tetrachloroethane	ND		10.0	8.23		ug/L		82	63 - 122		
Tetrachloroethene	0.58	J	10.0	9.12		ug/L		85	70 - 120		
Toluene	ND		10.0	8.86		ug/L		89	78 - 120		
trans-1,4-Dichloro-2-butene	ND		10.0	7.29		ug/L		73	10 - 199		
trans-1,2-Dichloroethene	0.40	J	10.0	10.5		ug/L		101	80 - 120		
trans-1,3-Dichloropropene	ND		10.0	8.70		ug/L		87	46 - 120		
1,1,1-Trichloroethane	ND	*	10.0	10.4		ug/L		104	68 - 121		
1,1,2-Trichloroethane	ND		10.0	8.71		ug/L		87	75 - 120		
Trichloroethene	2.7		10.0	12.2		ug/L		95	66 - 120		
Trichlorofluoromethane	ND		10.0	9.05		ug/L		91	46 - 157		
1,2,3-Trichloropropane	ND		10.0	8.66		ug/L		87	67 - 132		
Vinyl acetate	ND	*	8.00	9.26		ug/L		116	43 - 157		
Vinyl chloride	4.4		10.0	11.6		ug/L		73	49 - 130		
Xylenes, Total	ND		20.0	17.9		ug/L		90	76 - 120		

MS   MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		66 - 120
Dibromofluoromethane (Surr)	84		75 - 121
1,2-Dichloroethane-d4 (Surr)	76		63 - 129
Toluene-d8 (Surr)	79		74 - 120

TestAmerica Canton

# QC Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 240-43416-1 MSD**

**Matrix: Water**

**Analysis Batch: 153932**

**Client Sample ID: MW031B/102214**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Acetone	ND		20.0	12.2		ug/L	61	33 - 145	33 - 145	3	30
Acrolein	ND		50.0	48.9		ug/L	98	47 - 168	47 - 168	2	30
Acrylonitrile	ND		100	87.2		ug/L	87	62 - 133	62 - 133	5	30
Benzene	0.32	J	10.0	10.3		ug/L	100	72 - 121	72 - 121	5	30
Bromodichloromethane	ND		10.0	9.10		ug/L	91	67 - 120	67 - 120	4	30
Bromoform	ND		10.0	8.27		ug/L	83	32 - 128	32 - 128	4	30
Bromomethane	ND		10.0	12.1		ug/L	121	10 - 186	10 - 186	16	30
2-Butanone	ND		20.0	14.0		ug/L	70	54 - 129	54 - 129	3	30
Carbon disulfide	ND		10.0	10.7		ug/L	107	57 - 147	57 - 147	8	30
Carbon tetrachloride	ND		10.0	11.0		ug/L	110	59 - 129	59 - 129	7	30
Chlorobenzene	ND		10.0	9.58		ug/L	96	80 - 120	80 - 120	4	30
Chloroethane	ND		10.0	11.0		ug/L	110	21 - 165	21 - 165	13	30
Chloroform	0.42	J	10.0	10.8		ug/L	103	76 - 120	76 - 120	6	30
Chloromethane	ND		10.0	8.59		ug/L	86	33 - 132	33 - 132	10	30
3-Chloro-1-propene	ND		10.0	9.62		ug/L	96	10 - 160	10 - 160	8	30
cis-1,2-Dichloroethene	7.3		10.0	17.5		ug/L	102	70 - 120	70 - 120	5	30
cis-1,3-Dichloropropene	ND		10.0	9.33		ug/L	93	51 - 120	51 - 120	4	30
Dibromochloromethane	ND		10.0	8.50		ug/L	85	56 - 120	56 - 120	4	30
1,2-Dibromo-3-Chloropropane	ND		10.0	7.50		ug/L	75	32 - 139	32 - 139	0	30
Dibromomethane	ND		10.0	8.95		ug/L	90	77 - 121	77 - 121	2	30
Dichlorodifluoromethane	ND		10.0	7.43		ug/L	74	17 - 128	17 - 128	12	30
1,1-Dichloroethane	ND		10.0	10.3		ug/L	103	79 - 120	79 - 120	5	30
1,2-Dichloroethane	0.75	J	10.0	9.98		ug/L	92	68 - 129	68 - 129	4	30
1,1-Dichloroethene	ND		10.0	10.6		ug/L	106	74 - 135	74 - 135	7	30
1,2-Dichloroethene, Total	7.7		20.0	28.7		ug/L	105	75 - 120	75 - 120	5	30
1,2-Dichloropropene	ND		10.0	9.50		ug/L	95	78 - 120	78 - 120	5	30
1,4-Dioxane	390		200	561	E	ug/L	87	50 - 150	50 - 150	6	30
Ethylbenzene	ND		10.0	9.65		ug/L	97	75 - 120	75 - 120	6	30
Ethylene Dibromide	ND		10.0	8.60		ug/L	86	74 - 120	74 - 120	4	30
Ethyl methacrylate	ND		10.0	8.82		ug/L	88	10 - 160	10 - 160	2	30
2-Hexanone	ND		20.0	14.3		ug/L	72	47 - 139	47 - 139	4	30
Iodomethane	ND		10.0	11.5		ug/L	115	66 - 144	66 - 144	9	30
Isobutanol	ND		250	183		ug/L	73	40 - 160	40 - 160	13	30
Methylene Chloride	ND		10.0	10.6		ug/L	106	63 - 128	63 - 128	8	30
4-Methyl-2-pentanone (MIBK)	ND		20.0	15.7		ug/L	79	56 - 131	56 - 131	4	30
m-Xylene & p-Xylene	ND		10.0	9.43		ug/L	94	75 - 120	75 - 120	4	30
o-Xylene	ND		10.0	9.43		ug/L	94	76 - 120	76 - 120	6	30
Styrene	ND		10.0	9.02		ug/L	90	71 - 120	71 - 120	6	30
1,1,1,2-Tetrachloroethane	ND		10.0	9.19		ug/L	92	64 - 120	64 - 120	6	30
1,1,2,2-Tetrachloroethane	ND		10.0	8.50		ug/L	85	63 - 122	63 - 122	3	30
Tetrachloroethene	0.58	J	10.0	9.56		ug/L	90	70 - 120	70 - 120	5	30
Toluene	ND		10.0	9.30		ug/L	93	78 - 120	78 - 120	5	30
trans-1,4-Dichloro-2-butene	ND		10.0	7.17		ug/L	72	10 - 199	10 - 199	2	30
trans-1,2-Dichloroethene	0.40	J	10.0	11.2		ug/L	108	80 - 120	80 - 120	7	30
trans-1,3-Dichloropropene	ND		10.0	9.02		ug/L	90	46 - 120	46 - 120	4	30
1,1,1-Trichloroethane	ND	*	10.0	11.0		ug/L	110	68 - 121	68 - 121	6	30
1,1,2-Trichloroethane	ND		10.0	8.90		ug/L	89	75 - 120	75 - 120	2	30
Trichloroethene	2.7		10.0	12.5		ug/L	98	66 - 120	66 - 120	3	30

TestAmerica Canton

# QC Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 240-43416-1 MSD**

**Matrix: Water**

**Analysis Batch: 153932**

**Client Sample ID: MW031B/102214**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Trichlorofluoromethane	ND		10.0	10.4		ug/L		104	46 - 157	14	30
1,2,3-Trichloropropane	ND		10.0	8.63		ug/L		86	67 - 132	0	30
Vinyl acetate	ND *		8.00	9.20		ug/L		115	43 - 157	1	30
Vinyl chloride	4.4		10.0	12.6		ug/L		82	49 - 130	8	30
Xylenes, Total	ND		20.0	18.9		ug/L		94	76 - 120	5	30
<hr/>											
Surrogate	MSD		MSD		Limits						
	%Recovery		Qualifier								
4-Bromofluorobenzene (Surr)	93				66 - 120						
Dibromofluoromethane (Surr)	88				75 - 121						
1,2-Dichloroethane-d4 (Surr)	79				63 - 129						
Toluene-d8 (Surr)	83				74 - 120						

**Lab Sample ID: MB 240-154314/6**

**Matrix: Water**

**Analysis Batch: 154314**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	ND		10	3.4	ug/L			10/31/14 14:26	1
Acetonitrile	ND		20	9.2	ug/L			10/31/14 14:26	1
Acrolein	ND		20	1.4	ug/L			10/31/14 14:26	1
Acrylonitrile	ND		20	6.3	ug/L			10/31/14 14:26	1
Benzene	ND		1.0	0.24	ug/L			10/31/14 14:26	1
Bromodichloromethane	ND		1.0	0.15	ug/L			10/31/14 14:26	1
Bromoform	ND		1.0	0.56	ug/L			10/31/14 14:26	1
Bromomethane	ND		1.0	0.63	ug/L			10/31/14 14:26	1
2-Butanone	ND		10	4.1	ug/L			10/31/14 14:26	1
Carbon disulfide	ND		1.0	0.28	ug/L			10/31/14 14:26	1
Carbon tetrachloride	ND		1.0	0.17	ug/L			10/31/14 14:26	1
Chlorobenzene	ND		1.0	0.19	ug/L			10/31/14 14:26	1
Chloroethane	ND		1.0	0.33	ug/L			10/31/14 14:26	1
Chloroform	ND		1.0	0.21	ug/L			10/31/14 14:26	1
Chloromethane	ND		1.0	0.44	ug/L			10/31/14 14:26	1
Chloroprene	ND		2.0	0.26	ug/L			10/31/14 14:26	1
3-Chloro-1-propene	ND		2.0	0.84	ug/L			10/31/14 14:26	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			10/31/14 14:26	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			10/31/14 14:26	1
Dibromochloromethane	ND		1.0	0.43	ug/L			10/31/14 14:26	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.82	ug/L			10/31/14 14:26	1
Dibromomethane	ND		1.0	0.17	ug/L			10/31/14 14:26	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			10/31/14 14:26	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			10/31/14 14:26	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			10/31/14 14:26	1
1,1-Dichloroethene	ND		1.0	0.45	ug/L			10/31/14 14:26	1
1,2-Dichloroethene, Total	ND		2.0	0.20	ug/L			10/31/14 14:26	1
1,2-Dichloropropane	ND		1.0	0.22	ug/L			10/31/14 14:26	1
1,4-Dioxane	ND		50	40	ug/L			10/31/14 14:26	1
Ethylbenzene	ND		1.0	0.23	ug/L			10/31/14 14:26	1
Ethylene Dibromide	ND		1.0	0.19	ug/L			10/31/14 14:26	1

TestAmerica Canton

# QC Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 240-154314/6**

**Matrix: Water**

**Analysis Batch: 154314**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Ethyl methacrylate	ND				1.0	0.44	ug/L			10/31/14 14:26	1
2-Hexanone	ND				10	3.9	ug/L			10/31/14 14:26	1
Iodomethane	ND				1.0	0.42	ug/L			10/31/14 14:26	1
Isobutanol	ND				50	12	ug/L			10/31/14 14:26	1
Methacrylonitrile	ND				2.0	0.70	ug/L			10/31/14 14:26	1
Methylene Chloride	0.829	J			1.0	0.28	ug/L			10/31/14 14:26	1
Methyl methacrylate	ND				2.0	0.99	ug/L			10/31/14 14:26	1
4-Methyl-2-pentanone (MIBK)	ND				10	3.6	ug/L			10/31/14 14:26	1
Propionitrile	ND				4.0	0.95	ug/L			10/31/14 14:26	1
Styrene	ND				1.0	0.45	ug/L			10/31/14 14:26	1
1,1,1,2-Tetrachloroethane	ND				1.0	0.28	ug/L			10/31/14 14:26	1
1,1,2,2-Tetrachloroethane	ND				1.0	0.22	ug/L			10/31/14 14:26	1
Tetrachloroethene	ND				1.0	0.20	ug/L			10/31/14 14:26	1
Toluene	ND				1.0	0.22	ug/L			10/31/14 14:26	1
trans-1,4-Dichloro-2-butene	ND				1.0	0.31	ug/L			10/31/14 14:26	1
trans-1,2-Dichloroethene	ND				1.0	0.26	ug/L			10/31/14 14:26	1
trans-1,3-Dichloropropene	ND				1.0	0.56	ug/L			10/31/14 14:26	1
1,1,1-Trichloroethane	ND				1.0	0.22	ug/L			10/31/14 14:26	1
1,1,2-Trichloroethane	ND				1.0	0.17	ug/L			10/31/14 14:26	1
Trichloroethene	ND				1.0	0.15	ug/L			10/31/14 14:26	1
Trichlorofluoromethane	ND				1.0	0.49	ug/L			10/31/14 14:26	1
1,2,3-Trichloropropane	ND				1.0	0.30	ug/L			10/31/14 14:26	1
Vinyl acetate	ND				2.0	0.41	ug/L			10/31/14 14:26	1
Vinyl chloride	ND				1.0	0.29	ug/L			10/31/14 14:26	1
Xylenes, Total	ND				2.0	0.43	ug/L			10/31/14 14:26	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
4-Bromofluorobenzene (Surr)	90		66 - 120				10/31/14 14:26	1
Dibromofluoromethane (Surr)	89		75 - 121				10/31/14 14:26	1
1,2-Dichloroethane-d4 (Surr)	92		63 - 129				10/31/14 14:26	1
Toluene-d8 (Surr)	92		74 - 120				10/31/14 14:26	1

**Lab Sample ID: LCS 240-154314/4**

**Matrix: Water**

**Analysis Batch: 154314**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCN	LCS	Result	Qualifier	Unit	D	%Rec	Limits	%Rec.
		Result	Qualifier							
Acetone	20.0		22.2			ug/L		111	43 - 136	
Acrolein	50.0		68.6			ug/L		137	51 - 170	
Acrylonitrile	100		101			ug/L		101	66 - 132	
Benzene	10.0		10.2			ug/L		102	80 - 120	
Bromodichloromethane	10.0		10.3			ug/L		103	72 - 121	
Bromoform	10.0		10.5			ug/L		105	40 - 131	
Bromomethane	10.0		8.97			ug/L		90	11 - 185	
2-Butanone	20.0		20.7			ug/L		104	60 - 126	
Carbon disulfide	10.0		10.4			ug/L		104	62 - 142	
Carbon tetrachloride	10.0		10.8			ug/L		108	66 - 128	
Chlorobenzene	10.0		10.5			ug/L		105	80 - 120	

TestAmerica Canton

# QC Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 240-154314/4**

**Matrix: Water**

**Analysis Batch: 154314**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Chloroethane	10.0	9.42		ug/L		94	25 - 153
Chloroform	10.0	10.1		ug/L		101	79 - 120
Chloromethane	10.0	8.80		ug/L		88	44 - 126
3-Chloro-1-propene	10.0	9.42		ug/L		94	40 - 160
cis-1,2-Dichloroethene	10.0	10.0		ug/L		100	80 - 120
cis-1,3-Dichloropropene	10.0	10.4		ug/L		104	61 - 120
Dibromochloromethane	10.0	10.7		ug/L		107	64 - 120
1,2-Dibromo-3-Chloropropane	10.0	10.4		ug/L		104	42 - 136
Dibromomethane	10.0	10.5		ug/L		105	80 - 120
Dichlorodifluoromethane	10.0	8.82		ug/L		88	19 - 129
1,1-Dichloroethane	10.0	10.1		ug/L		101	80 - 120
1,2-Dichloroethane	10.0	10.2		ug/L		102	71 - 127
1,1-Dichloroethene	10.0	10.1		ug/L		101	78 - 131
1,2-Dichloroethene, Total	20.0	20.3		ug/L		102	80 - 120
1,2-Dichloropropene	10.0	10.5		ug/L		105	80 - 120
1,4-Dioxane	200	222		ug/L		111	50 - 150
Ethylbenzene	10.0	10.6		ug/L		106	80 - 120
Ethylene Dibromide	10.0	10.5		ug/L		105	79 - 120
Ethyl methacrylate	10.0	9.93		ug/L		99	40 - 160
2-Hexanone	20.0	22.7		ug/L		113	55 - 133
Iodomethane	10.0	10.5		ug/L		105	72 - 141
Isobutanol	250	242		ug/L		97	40 - 160
Methylene Chloride	10.0	9.82		ug/L		98	66 - 131
4-Methyl-2-pentanone (MIBK)	20.0	20.4		ug/L		102	63 - 128
m-Xylene & p-Xylene	10.0	10.6		ug/L		106	80 - 120
o-Xylene	10.0	10.9		ug/L		109	80 - 120
Styrene	10.0	10.4		ug/L		104	79 - 120
1,1,1,2-Tetrachloroethane	10.0	10.5		ug/L		105	72 - 120
1,1,2,2-Tetrachloroethane	10.0	10.5		ug/L		105	68 - 120
Tetrachloroethene	10.0	10.8		ug/L		108	79 - 120
Toluene	10.0	10.6		ug/L		106	80 - 120
trans-1,4-Dichloro-2-butene	10.0	10.4		ug/L		104	10 - 199
trans-1,2-Dichloroethene	10.0	10.3		ug/L		103	80 - 120
trans-1,3-Dichloropropene	10.0	11.1		ug/L		111	58 - 120
1,1,1-Trichloroethane	10.0	10.3		ug/L		103	74 - 120
1,1,2-Trichloroethane	10.0	10.5		ug/L		105	80 - 120
Trichloroethene	10.0	10.4		ug/L		104	76 - 120
Trichlorofluoromethane	10.0	11.9		ug/L		119	49 - 157
1,2,3-Trichloropropane	10.0	11.0		ug/L		110	73 - 129
Vinyl acetate	8.00	12.4		ug/L		154	46 - 161
Vinyl chloride	10.0	8.74		ug/L		87	53 - 127
Xylenes, Total	20.0	21.5		ug/L		108	80 - 120

Surrogate	LCS	LCS	
	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		66 - 120
Dibromofluoromethane (Surr)	87		75 - 121
1,2-Dichloroethane-d4 (Surr)	87		63 - 129
Toluene-d8 (Surr)	94		74 - 120

TestAmerica Canton

# QC Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 240-154439/6**

**Matrix: Water**

**Analysis Batch: 154439**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	ND		10	3.4	ug/L			11/01/14 17:22	1
Acetonitrile	ND		20	9.2	ug/L			11/01/14 17:22	1
Acrolein	ND		20	1.4	ug/L			11/01/14 17:22	1
Acrylonitrile	ND		20	6.3	ug/L			11/01/14 17:22	1
Benzene	ND		1.0	0.24	ug/L			11/01/14 17:22	1
Bromodichloromethane	ND		1.0	0.15	ug/L			11/01/14 17:22	1
Bromoform	ND		1.0	0.56	ug/L			11/01/14 17:22	1
Bromomethane	ND		1.0	0.63	ug/L			11/01/14 17:22	1
2-Butanone	ND		10	4.1	ug/L			11/01/14 17:22	1
Carbon disulfide	ND		1.0	0.28	ug/L			11/01/14 17:22	1
Carbon tetrachloride	ND		1.0	0.17	ug/L			11/01/14 17:22	1
Chlorobenzene	ND		1.0	0.19	ug/L			11/01/14 17:22	1
Chloroethane	ND		1.0	0.33	ug/L			11/01/14 17:22	1
Chloroform	ND		1.0	0.21	ug/L			11/01/14 17:22	1
Chloromethane	ND		1.0	0.44	ug/L			11/01/14 17:22	1
Chloroprene	ND		2.0	0.26	ug/L			11/01/14 17:22	1
3-Chloro-1-propene	ND		2.0	0.84	ug/L			11/01/14 17:22	1
cis-1,2-Dichloroethene	ND		1.0	0.20	ug/L			11/01/14 17:22	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			11/01/14 17:22	1
Dibromochloromethane	ND		1.0	0.43	ug/L			11/01/14 17:22	1
1,2-Dibromo-3-Chloropropane	ND		2.0	0.82	ug/L			11/01/14 17:22	1
Dibromomethane	ND		1.0	0.17	ug/L			11/01/14 17:22	1
Dichlorodifluoromethane	ND		1.0	0.50	ug/L			11/01/14 17:22	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			11/01/14 17:22	1
1,2-Dichloroethane	ND		1.0	0.20	ug/L			11/01/14 17:22	1
1,1-Dichloroethene	ND		1.0	0.45	ug/L			11/01/14 17:22	1
1,2-Dichloroethene, Total	ND		2.0	0.20	ug/L			11/01/14 17:22	1
1,2-Dichloropropane	ND		1.0	0.22	ug/L			11/01/14 17:22	1
1,4-Dioxane	ND		50	40	ug/L			11/01/14 17:22	1
Ethylbenzene	ND		1.0	0.23	ug/L			11/01/14 17:22	1
Ethylene Dibromide	ND		1.0	0.19	ug/L			11/01/14 17:22	1
Ethyl methacrylate	ND		1.0	0.44	ug/L			11/01/14 17:22	1
2-Hexanone	ND		10	3.9	ug/L			11/01/14 17:22	1
Iodomethane	ND		1.0	0.42	ug/L			11/01/14 17:22	1
Isobutanol	ND		50	12	ug/L			11/01/14 17:22	1
Methacrylonitrile	ND		2.0	0.70	ug/L			11/01/14 17:22	1
Methylene Chloride	0.790	J	1.0	0.28	ug/L			11/01/14 17:22	1
Methyl methacrylate	ND		2.0	0.99	ug/L			11/01/14 17:22	1
4-Methyl-2-pentanone (MIBK)	ND		10	3.6	ug/L			11/01/14 17:22	1
Propionitrile	ND		4.0	0.95	ug/L			11/01/14 17:22	1
Styrene	ND		1.0	0.45	ug/L			11/01/14 17:22	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.28	ug/L			11/01/14 17:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.22	ug/L			11/01/14 17:22	1
Tetrachloroethene	ND		1.0	0.20	ug/L			11/01/14 17:22	1
Toluene	ND		1.0	0.22	ug/L			11/01/14 17:22	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.31	ug/L			11/01/14 17:22	1
trans-1,2-Dichloroethene	ND		1.0	0.26	ug/L			11/01/14 17:22	1
trans-1,3-Dichloropropene	ND		1.0	0.56	ug/L			11/01/14 17:22	1

TestAmerica Canton

# QC Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 240-154439/6**

**Matrix: Water**

**Analysis Batch: 154439**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
1,1,1-Trichloroethane	ND				1.0	0.22	ug/L			11/01/14 17:22	1
1,1,2-Trichloroethane	ND				1.0	0.17	ug/L			11/01/14 17:22	1
Trichloroethene	ND				1.0	0.15	ug/L			11/01/14 17:22	1
Trichlorofluoromethane	ND				1.0	0.49	ug/L			11/01/14 17:22	1
1,2,3-Trichloropropane	ND				1.0	0.30	ug/L			11/01/14 17:22	1
Vinyl acetate	ND				2.0	0.41	ug/L			11/01/14 17:22	1
Vinyl chloride	ND				1.0	0.29	ug/L			11/01/14 17:22	1
Xylenes, Total	ND				2.0	0.43	ug/L			11/01/14 17:22	1
Surrogate	MB	MB	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
	Result	Qualifier									
4-Bromofluorobenzene (Surr)	92		66 - 120						11/01/14 17:22	1	
Dibromofluoromethane (Surr)	91		75 - 121						11/01/14 17:22	1	
1,2-Dichloroethane-d4 (Surr)	93		63 - 129						11/01/14 17:22	1	
Toluene-d8 (Surr)	92		74 - 120						11/01/14 17:22	1	

**Lab Sample ID: LCS 240-154439/4**

**Matrix: Water**

**Analysis Batch: 154439**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Acetone	20.0	19.1		ug/L		96	43 - 136
Acrolein	50.0	65.3		ug/L		131	51 - 170
Acrylonitrile	100	105		ug/L		105	66 - 132
Benzene	10.0	10.4		ug/L		104	80 - 120
Bromodichloromethane	10.0	10.5		ug/L		105	72 - 121
Bromoform	10.0	11.1		ug/L		111	40 - 131
Bromomethane	10.0	9.09		ug/L		91	11 - 185
2-Butanone	20.0	21.1		ug/L		106	60 - 126
Carbon disulfide	10.0	10.8		ug/L		108	62 - 142
Carbon tetrachloride	10.0	11.1		ug/L		111	66 - 128
Chlorobenzene	10.0	10.6		ug/L		106	80 - 120
Chloroethane	10.0	9.84		ug/L		98	25 - 153
Chloroform	10.0	10.4		ug/L		104	79 - 120
Chloromethane	10.0	9.26		ug/L		93	44 - 126
3-Chloro-1-propene	10.0	9.77		ug/L		98	40 - 160
cis-1,2-Dichloroethene	10.0	10.3		ug/L		103	80 - 120
cis-1,3-Dichloropropene	10.0	10.4		ug/L		104	61 - 120
Dibromochloromethane	10.0	11.0		ug/L		110	64 - 120
1,2-Dibromo-3-Chloropropane	10.0	10.6		ug/L		106	42 - 136
Dibromomethane	10.0	10.5		ug/L		105	80 - 120
Dichlorodifluoromethane	10.0	8.95		ug/L		89	19 - 129
1,1-Dichloroethane	10.0	10.4		ug/L		104	80 - 120
1,2-Dichloroethane	10.0	10.7		ug/L		107	71 - 127
1,1-Dichloroethene	10.0	10.5		ug/L		105	78 - 131
1,2-Dichloroethene, Total	20.0	20.7		ug/L		104	80 - 120
1,2-Dichloropropane	10.0	10.8		ug/L		108	80 - 120
1,4-Dioxane	200	242		ug/L		121	50 - 150
Ethylbenzene	10.0	10.6		ug/L		106	80 - 120

TestAmerica Canton

# QC Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 240-154439/4**

**Matrix: Water**

**Analysis Batch: 154439**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits	5
		Result	Qualifier					
Ethylene Dibromide	10.0	10.8		ug/L		108	79 - 120	6
Ethyl methacrylate	10.0	10.6		ug/L		106	40 - 160	7
2-Hexanone	20.0	22.9		ug/L		114	55 - 133	8
Iodomethane	10.0	10.8		ug/L		108	72 - 141	9
Isobutanol	250	266		ug/L		106	40 - 160	10
Methylene Chloride	10.0	10.1		ug/L		101	66 - 131	11
4-Methyl-2-pentanone (MIBK)	20.0	21.8		ug/L		109	63 - 128	12
m-Xylene & p-Xylene	10.0	10.6		ug/L		106	80 - 120	13
o-Xylene	10.0	10.9		ug/L		109	80 - 120	14
Styrene	10.0	10.6		ug/L		106	79 - 120	
1,1,1,2-Tetrachloroethane	10.0	10.6		ug/L		106	72 - 120	
1,1,2,2-Tetrachloroethane	10.0	10.5		ug/L		105	68 - 120	
Tetrachloroethene	10.0	10.5		ug/L		105	79 - 120	
Toluene	10.0	10.6		ug/L		106	80 - 120	
trans-1,4-Dichloro-2-butene	10.0	9.88		ug/L		99	10 - 199	
trans-1,2-Dichloroethene	10.0	10.4		ug/L		104	80 - 120	
trans-1,3-Dichloropropene	10.0	10.9		ug/L		109	58 - 120	
1,1,1-Trichloroethane	10.0	10.6		ug/L		106	74 - 120	
1,1,2-Trichloroethane	10.0	10.4		ug/L		104	80 - 120	
Trichloroethene	10.0	10.8		ug/L		108	76 - 120	
Trichlorofluoromethane	10.0	12.0		ug/L		120	49 - 157	
1,2,3-Trichloropropane	10.0	10.7		ug/L		107	73 - 129	
Vinyl acetate	8.00	12.5		ug/L		156	46 - 161	
Vinyl chloride	10.0	9.16		ug/L		92	53 - 127	
Xylenes, Total	20.0	21.5		ug/L		108	80 - 120	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	97		66 - 120
Dibromofluoromethane (Surr)	90		75 - 121
1,2-Dichloroethane-d4 (Surr)	92		63 - 129
Toluene-d8 (Surr)	93		74 - 120

**Lab Sample ID: 240-43416-8 MS**

**Matrix: Water**

**Analysis Batch: 154439**

**Client Sample ID: MW031C/102214**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Acetone	ND		200	151		ug/L		76	33 - 145
Acrolein	ND		500	662		ug/L		132	47 - 168
Acrylonitrile	ND		1000	1030		ug/L		103	62 - 133
Benzene	2.9	J	100	102		ug/L		99	72 - 121
Bromodichloromethane	ND		100	99.7		ug/L		100	67 - 120
Bromoform	ND		100	103		ug/L		103	32 - 128
Bromomethane	ND		100	109		ug/L		109	10 - 186
2-Butanone	ND		200	181		ug/L		90	54 - 129
Carbon disulfide	ND		100	102		ug/L		102	57 - 147
Carbon tetrachloride	ND		100	108		ug/L		108	59 - 129
Chlorobenzene	ND		100	96.8		ug/L		97	80 - 120

TestAmerica Canton

# QC Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-43416-8 MS

Client Sample ID: MW031C/102214

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 154439

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits		
	Result	Qualifier	Added	Result	Qualifier						
Chloroethane	ND		100	104		ug/L		104	21 - 165		
Chloroform	ND		100	103		ug/L		103	76 - 120		
Chloromethane	ND		100	89.0		ug/L		89	33 - 132		
3-Chloro-1-propene	ND		100	92.8		ug/L		93	10 - 160		
cis-1,2-Dichloroethene	14		100	118		ug/L		104	70 - 120		
cis-1,3-Dichloropropene	ND		100	92.0		ug/L		92	51 - 120		
Dibromochloromethane	ND		100	105		ug/L		105	56 - 120		
1,2-Dibromo-3-Chloropropane	ND		100	116		ug/L		116	32 - 139		
Dibromomethane	ND		100	101		ug/L		101	77 - 121		
Dichlorodifluoromethane	ND		100	78.4		ug/L		78	17 - 128		
1,1-Dichloroethane	12		100	116		ug/L		104	79 - 120		
1,2-Dichloroethane	64		100	168		ug/L		104	68 - 129		
1,1-Dichloroethene	ND		100	96.7		ug/L		97	74 - 135		
1,2-Dichloroethene, Total	14	J	200	219		ug/L		103	75 - 120		
1,2-Dichloropropene	ND		100	100		ug/L		100	78 - 120		
1,4-Dioxane	5900		2000	8320	E	ug/L		119	50 - 150		
Ethylbenzene	ND		100	95.0		ug/L		95	75 - 120		
Ethylene Dibromide	ND		100	102		ug/L		102	74 - 120		
Ethyl methacrylate	ND		100	103		ug/L		103	10 - 160		
2-Hexanone	ND		200	198		ug/L		99	47 - 139		
Iodomethane	ND		100	106		ug/L		106	66 - 144		
Isobutanol	ND		2500	3050		ug/L		122	40 - 160		
Methylene Chloride	35	B	100	127		ug/L		91	63 - 128		
4-Methyl-2-pentanone (MIBK)	ND		200	186		ug/L		93	56 - 131		
m-Xylene & p-Xylene	ND		100	96.2		ug/L		96	75 - 120		
o-Xylene	ND		100	100		ug/L		100	76 - 120		
Styrene	ND		100	95.3		ug/L		95	71 - 120		
1,1,1,2-Tetrachloroethane	ND		100	106		ug/L		106	64 - 120		
1,1,2,2-Tetrachloroethane	ND		100	101		ug/L		101	63 - 122		
Tetrachloroethene	ND		100	94.6		ug/L		95	70 - 120		
Toluene	ND		100	97.8		ug/L		98	78 - 120		
trans-1,4-Dichloro-2-butene	ND		100	89.7		ug/L		90	10 - 199		
trans-1,2-Dichloroethene	ND		100	101		ug/L		101	80 - 120		
trans-1,3-Dichloropropene	ND		100	103		ug/L		103	46 - 120		
1,1,1-Trichloroethane	ND		100	104		ug/L		104	68 - 121		
1,1,2-Trichloroethane	ND		100	97.8		ug/L		98	75 - 120		
Trichloroethene	3.1	J	100	101		ug/L		98	66 - 120		
Trichlorofluoromethane	ND		100	115		ug/L		115	46 - 157		
1,2,3-Trichloropropane	ND		100	101		ug/L		101	67 - 132		
Vinyl acetate	ND		80.0	140	F1	ug/L		174	43 - 157		
Vinyl chloride	3.8	J	100	90.4		ug/L		87	49 - 130		
Xylenes, Total	ND		200	196		ug/L		98	76 - 120		

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	97		66 - 120
Dibromofluoromethane (Surr)	96		75 - 121
1,2-Dichloroethane-d4 (Surr)	91		63 - 129
Toluene-d8 (Surr)	94		74 - 120

TestAmerica Canton

# QC Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 240-43416-8 MSD**

**Matrix: Water**

**Analysis Batch: 154439**

**Client Sample ID: MW031C/102214**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
Acetone	ND		200	146		ug/L		73	33 - 145	4	30
Acrolein	ND		500	624		ug/L		125	47 - 168	6	30
Acrylonitrile	ND		1000	1030		ug/L		103	62 - 133	0	30
Benzene	2.9	J	100	101		ug/L		99	72 - 121	0	30
Bromodichloromethane	ND		100	101		ug/L		101	67 - 120	1	30
Bromoform	ND		100	108		ug/L		108	32 - 128	5	30
Bromomethane	ND		100	100		ug/L		100	10 - 186	8	30
2-Butanone	ND		200	174		ug/L		87	54 - 129	3	30
Carbon disulfide	ND		100	101		ug/L		101	57 - 147	2	30
Carbon tetrachloride	ND		100	107		ug/L		107	59 - 129	1	30
Chlorobenzene	ND		100	98.1		ug/L		98	80 - 120	1	30
Chloroethane	ND		100	102		ug/L		102	21 - 165	2	30
Chloroform	ND		100	103		ug/L		103	76 - 120	0	30
Chloromethane	ND		100	92.5		ug/L		93	33 - 132	4	30
3-Chloro-1-propene	ND		100	92.3		ug/L		92	10 - 160	1	30
cis-1,2-Dichloroethene	14		100	117		ug/L		103	70 - 120	1	30
cis-1,3-Dichloropropene	ND		100	95.0		ug/L		95	51 - 120	3	30
Dibromochloromethane	ND		100	104		ug/L		104	56 - 120	1	30
1,2-Dibromo-3-Chloropropane	ND		100	119		ug/L		119	32 - 139	2	30
Dibromomethane	ND		100	104		ug/L		104	77 - 121	3	30
Dichlorodifluoromethane	ND		100	77.5		ug/L		78	17 - 128	1	30
1,1-Dichloroethane	12		100	116		ug/L		104	79 - 120	0	30
1,2-Dichloroethane	64		100	171		ug/L		107	68 - 129	2	30
1,1-Dichloroethene	ND		100	94.2		ug/L		94	74 - 135	3	30
1,2-Dichloroethene, Total	14	J	200	219		ug/L		103	75 - 120	0	30
1,2-Dichloropropene	ND		100	100		ug/L		100	78 - 120	0	30
1,4-Dioxane	5900		2000	8980	E F1	ug/L		152	50 - 150	8	30
Ethylbenzene	ND		100	95.2		ug/L		95	75 - 120	0	30
Ethylene Dibromide	ND		100	103		ug/L		103	74 - 120	2	30
Ethyl methacrylate	ND		100	103		ug/L		103	10 - 160	0	30
2-Hexanone	ND		200	205		ug/L		102	47 - 139	3	30
Iodomethane	ND		100	107		ug/L		107	66 - 144	1	30
Isobutanol	ND		2500	3170		ug/L		127	40 - 160	4	30
Methylene Chloride	35	B	100	128		ug/L		93	63 - 128	1	30
4-Methyl-2-pentanone (MIBK)	ND		200	195		ug/L		97	56 - 131	5	30
m-Xylene & p-Xylene	ND		100	95.2		ug/L		95	75 - 120	1	30
o-Xylene	ND		100	103		ug/L		103	76 - 120	3	30
Styrene	ND		100	99.0		ug/L		99	71 - 120	4	30
1,1,1,2-Tetrachloroethane	ND		100	109		ug/L		109	64 - 120	3	30
1,1,2,2-Tetrachloroethane	ND		100	100		ug/L		100	63 - 122	0	30
Tetrachloroethene	ND		100	92.3		ug/L		92	70 - 120	3	30
Toluene	ND		100	98.4		ug/L		98	78 - 120	1	30
trans-1,4-Dichloro-2-butene	ND		100	86.6		ug/L		87	10 - 199	4	30
trans-1,2-Dichloroethene	ND		100	102		ug/L		102	80 - 120	1	30
trans-1,3-Dichloropropene	ND		100	106		ug/L		106	46 - 120	3	30
1,1,1-Trichloroethane	ND		100	104		ug/L		104	68 - 121	0	30
1,1,2-Trichloroethane	ND		100	99.0		ug/L		99	75 - 120	1	30
Trichloroethene	3.1	J	100	102		ug/L		99	66 - 120	0	30

TestAmerica Canton

# QC Sample Results

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-43416-8 MSD

Client Sample ID: MW031C/102214

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 154439

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier			%Rec.	Limits		
Trichlorofluoromethane	ND		100	112		ug/L		112	46 - 157	3	30
1,2,3-Trichloropropane	ND		100	99.8		ug/L		100	67 - 132	2	30
Vinyl acetate	ND		80.0	144	F1	ug/L		180	43 - 157	3	30
Vinyl chloride	3.8	J	100	95.2		ug/L		91	49 - 130	5	30
Xylenes, Total	ND		200	198		ug/L		99	76 - 120	1	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		66 - 120
Dibromofluoromethane (Surr)	93		75 - 121
1,2-Dichloroethane-d4 (Surr)	89		63 - 129
Toluene-d8 (Surr)	94		74 - 120

# QC Association Summary

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

## GC/MS VOA

### Analysis Batch: 153932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-43416-1	MW031B/102214	Total/NA	Water	8260B	5
240-43416-1 MS	MW031B/102214	Total/NA	Water	8260B	6
240-43416-1 MSD	MW031B/102214	Total/NA	Water	8260B	7
240-43416-2	FB01/102214	Total/NA	Water	8260B	8
240-43416-3	RIN01/102214	Total/NA	Water	8260B	9
LCS 240-153932/4	Lab Control Sample	Total/NA	Water	8260B	10
MB 240-153932/6	Method Blank	Total/NA	Water	8260B	11

### Analysis Batch: 154314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-43416-4	DUP01/102214	Total/NA	Water	8260B	12
240-43416-5	TB02/102214	Total/NA	Water	8260B	13
240-43416-6	MW044/102214	Total/NA	Water	8260B	14
240-43416-7	MW041/102214	Total/NA	Water	8260B	1
240-43416-9	MW011A/102214	Total/NA	Water	8260B	2
240-43416-10	MW026R/102214	Total/NA	Water	8260B	3
240-43416-11	MW026AR/102214	Total/NA	Water	8260B	4
240-43416-12	MW001R/102214	Total/NA	Water	8260B	5
240-43416-13	MW015BR/102214	Total/NA	Water	8260B	6
240-43416-14	MW015R/102214	Total/NA	Water	8260B	7
240-43416-15	MW021A/102214	Total/NA	Water	8260B	8
240-43416-16	MW025/102214	Total/NA	Water	8260B	9
LCS 240-154314/4	Lab Control Sample	Total/NA	Water	8260B	10
MB 240-154314/6	Method Blank	Total/NA	Water	8260B	11

### Analysis Batch: 154439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-43416-8	MW031C/102214	Total/NA	Water	8260B	1
240-43416-8 MS	MW031C/102214	Total/NA	Water	8260B	2
240-43416-8 MSD	MW031C/102214	Total/NA	Water	8260B	3
LCS 240-154439/4	Lab Control Sample	Total/NA	Water	8260B	4
MB 240-154439/6	Method Blank	Total/NA	Water	8260B	5

## Lab Chronicle

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW031B/102214**

**Lab Sample ID: 240-43416-1**

Matrix: Water

Date Collected: 10/22/14 09:20

Date Received: 10/23/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	153932	10/30/14 00:13	LRW	TAL CAN

**Client Sample ID: FB01/102214**

**Lab Sample ID: 240-43416-2**

Matrix: Water

Date Collected: 10/22/14 09:30

Date Received: 10/23/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	153932	10/29/14 23:28	LRW	TAL CAN

**Client Sample ID: RIN01/102214**

**Lab Sample ID: 240-43416-3**

Matrix: Water

Date Collected: 10/22/14 09:35

Date Received: 10/23/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	153932	10/29/14 23:51	LRW	TAL CAN

**Client Sample ID: DUP01/102214**

**Lab Sample ID: 240-43416-4**

Matrix: Water

Date Collected: 10/22/14 00:00

Date Received: 10/23/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	154314	10/31/14 15:36	LRW	TAL CAN

**Client Sample ID: TB02/102214**

**Lab Sample ID: 240-43416-5**

Matrix: Water

Date Collected: 10/22/14 00:00

Date Received: 10/23/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	154314	10/31/14 16:08	LRW	TAL CAN

**Client Sample ID: MW044/102214**

**Lab Sample ID: 240-43416-6**

Matrix: Water

Date Collected: 10/22/14 09:25

Date Received: 10/23/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	154314	10/31/14 16:31	LRW	TAL CAN

TestAmerica Canton

## Lab Chronicle

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

**Client Sample ID: MW041/102214**

**Lab Sample ID: 240-43416-7**

Matrix: Water

Date Collected: 10/22/14 10:30  
Date Received: 10/23/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	154314	10/31/14 16:53	LRW	TAL CAN

**Client Sample ID: MW031C/102214**

**Lab Sample ID: 240-43416-8**

Matrix: Water

Date Collected: 10/22/14 10:20  
Date Received: 10/23/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	154439	11/01/14 17:52	LRW	TAL CAN

**Client Sample ID: MW011A/102214**

**Lab Sample ID: 240-43416-9**

Matrix: Water

Date Collected: 10/22/14 11:15  
Date Received: 10/23/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	154314	10/31/14 17:38	LRW	TAL CAN

**Client Sample ID: MW026R/102214**

**Lab Sample ID: 240-43416-10**

Matrix: Water

Date Collected: 10/22/14 13:20  
Date Received: 10/23/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	154314	10/31/14 18:00	LRW	TAL CAN

**Client Sample ID: MW026AR/102214**

**Lab Sample ID: 240-43416-11**

Matrix: Water

Date Collected: 10/22/14 14:05  
Date Received: 10/23/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	154314	10/31/14 18:23	LRW	TAL CAN

**Client Sample ID: MW001R/102214**

**Lab Sample ID: 240-43416-12**

Matrix: Water

Date Collected: 10/22/14 15:05  
Date Received: 10/23/14 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	154314	10/31/14 18:45	LRW	TAL CAN

TestAmerica Canton

## Lab Chronicle

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

### Client Sample ID: MW015BR/102214

Date Collected: 10/22/14 12:15  
Date Received: 10/23/14 08:45

### Lab Sample ID: 240-43416-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		13.33	154314	10/31/14 19:07	LRW	TAL CAN

### Client Sample ID: MW015R/102214

Date Collected: 10/22/14 13:15  
Date Received: 10/23/14 08:45

### Lab Sample ID: 240-43416-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		33.33	154314	10/31/14 19:30	LRW	TAL CAN

### Client Sample ID: MW021A/102214

Date Collected: 10/22/14 14:15  
Date Received: 10/23/14 08:45

### Lab Sample ID: 240-43416-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	154314	10/31/14 19:53	LRW	TAL CAN

### Client Sample ID: MW025/102214

Date Collected: 10/22/14 15:00  
Date Received: 10/23/14 08:45

### Lab Sample ID: 240-43416-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	154314	10/31/14 20:15	LRW	TAL CAN

#### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TestAmerica Canton

## Certification Summary

Client: TRC Environmental Corp-Payne Firm  
Project/Site: EMD

TestAmerica Job ID: 240-43416-1

### Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-15
Connecticut	State Program	1	PH-0590	12-31-14
Florida	NELAP	4	E87225	06-30-15
Georgia	State Program	4	N/A	06-30-15
Illinois	NELAP	5	200004	07-31-15
Kansas	NELAP	7	E-10336	01-31-15
Kentucky (UST)	State Program	4	58	06-30-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-14
Nevada	State Program	9	OH-000482008A	07-31-15
New Jersey	NELAP	2	OH001	06-30-15
New York	NELAP	2	10975	03-31-15
Ohio VAP	State Program	5	CL0024	10-31-15
Pennsylvania	NELAP	3	68-00340	08-31-15
Texas	NELAP	6		08-31-15
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-15
Washington	State Program	10	C971	01-12-15
West Virginia DEP	State Program	3	210	12-31-14
Wisconsin	State Program	5	999518190	08-31-15

\* Certification renewal pending - certification considered valid.

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

**CHAIN OF CUSTODY  
AND  
RECEIVING DOCUMENTS**



240-43416 Chain of Custody

# TestAmerica Canton

4101 Shufel Street NW  
North Canton, OH 44720  
Phone (330) 497-9396 Fax (330) 497-0772

# Chain of Custody Record

1,4

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information</b>		Sampler: <b>57n</b>		Lab P.M.: O'Meara, Patrick J		Carrier Tracking No.:				
Client Contact: Steve Rolfe		Phone: 513-489-2255		E-Mail: patrick.omeara@testamericainc.com		COC No: 240-23650-10275.3		Page: 3 of 5		
Company: TRC Environmental Corp-Payne Firm		Address: 11231 Cornell Park Drive City: Cincinnati State, Zip: OH, 45242		Due Date Requested: <b>57n</b>		TAT Requested (days): <b>57n</b>		Job #:		
Site: Howard, OH		PO #: 513-489-2255(Tel) 513-489-2533(Fax)		WO #:		Project #: 24001074		Total Number of Contaminants:		
Email: srolfes@trcsolutions.com		Phone:		SSOW#:		8209B - (MOD) Appendix IX MSVOA-Nashville		Special Instructions/Note:		
Project Name: EMD		Email: srolfes@trcsolutions.com		Phone:		8209B - (MOD) Appendix IX MSVOA-Nashville		Special Instructions/Note:		
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oil, B=biological, A=air)	Preservation Code:				
MW3313/10/22/14	10/23/14	0920	G	Water	N	X				
FBD11022214		0930	G	Water	N	X				
RJW01102214		0935	G	Water	N	X				
D801102214		—	G	Water	N	X				
TB021102214		—	G	Water	N	X				
MW041102214		0625	G	Water	N	X				
MW041102214		1030	G	Water	N	X				
MW031C102214		1020	G	Water	N	X				
MW0111102214		1115	G	Water	N	X				
MW026R102214		1320	G	Water	N	X				
MW026AP102214	10/22/14	1405	G	Water	N	X				
Possible Hazard Identification		Date:	Time:	Received by:		Received by:		Method of Shipment:		
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable		10/22/14	1405	Company		Company		Date/Time:		
Deliverable Requested: I, II, III, IV, Other (specify)		Poison A <input checked="" type="checkbox"/>	Poison B <input type="checkbox"/>	Unknown <input type="checkbox"/>		Radiological <input type="checkbox"/>		Archive For _____ Months:		
Empty Kit Relinquished by:		Date:	Time:	Received by:		Received by:		Date/Time:		
Relinquished by:		10/22/14	1405	Company		Company		Date/Time:		
Relinquished by:		10/22/14	1405	Company		Company		Date/Time:		
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:						

### TestAmerica Canton

4101 Shufel Street NW  
North Canton, OH 44720  
Phone (330) 497-9396 Fax (330) 497-0772

### Chain of Custody Record

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

#### Client Information

Client Contact:  
Steve Rolfe

Company:  
TRC Environmental Corp-Payne Firm

Address:  
11231 Cornell Park Drive

City:  
Cincinnati

State, Zip:  
OH, 45242

Phone:  
513-489-2255(Tel) 513-489-2533(Fax)

Email:  
srolfes@trcsolutions.com

Project Name:  
EMD

Site:  
*Nelson, OH*

Sample #: *SJN*  
Phone: *513-489-2255*

Carrier Tracking No(s):

COG No:  
240-23650-10275.4

Page:

Page 4 of 5

Job #:

#### Analysis Requested

Due Date Requested:	TAT Requested (days):	Preservation Codes:	
11/23/14	6	A - HCl	M - Hexane
		B - NaOH	N - None
		C - Zn Acetate	O - AsNaO2
		D - Nitric Acid	P - Na2CO3S
		E - NaHSO4	Q - Na2SO3
		F - MeOH	R - Na2S2O3C3
		G - Amchlor	S - H2SC4
		H - Ascorbic Acid	T - TSP Dodecylate
		I - Ice	U - Acetone
		J - Di Water	V - MCAA
		K - EDTA	W - ph 4-6
		L - EDA	Z - other (specify) Other:

8260B - (MOD) Appendix IX MSVOA-Nashville

Performs/MS/MS/MSD (Yes or No)

Sample Type (Yes or No)

Sample Matrix (Yes or No)

Sample Preparation (Yes or No)

Sample Analysis (Yes or No)

Sample Preservation (Yes or No)

Sample Storage (Yes or No)

Sample Shipping (Yes or No)

Sample Return (Yes or No)

Sample Disposal (Yes or No)

Special Instructions/Note:

#### Sample Identification

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, B=tissue, A=air)	Preservation Code:	Method of Shipment:
Mw00111/02214	10/21/14	1505	C	Water	W W X	
Mw015311/02214	10/21/14	1215	C	Water	W W X	
Mw015211/02214	10/21/14	1315	C	Water	W W X	
Mw021411/02214	10/21/14	1415	C	Water	W W X	
Mw02511/02214	10/21/14	1500	C	Water	W W X	
				Water		
				Water		
				Water		
				Water		
				Water		
				Water		

Possible Hazard Identification  
 Non-Hazard     Flammable  
 Skin Irritant     Poison B     Unknown     Radiological

Deliverable Requested: I, II, III, IV, Other (specify)  
*10/22/14*

Empty Kit Reconciled by: *Patricia J. O'Meara* Date: *10/22/14* Time: *1625* Company: *TestAmerica* Received by: *Patricia J. O'Meara*

Reinquired by: *Patricia J. O'Meara* Date/Time: *10/22/14 / 1630* Company: *TestAmerica* Received by: *Patricia J. O'Meara*

Reinquired by: *Patricia J. O'Meara* Date/Time: *10/23/14 0845* Company: *TestAmerica* Received by: *Patricia J. O'Meara*

Cooler Temperature(s) °C and Other Remarks:  
 Yes     No

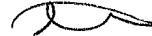
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client     Disposal By Lab     Archive For Months

Special Instructions/QC Requirements:

Reinquired by: <i>Patricia J. O'Meara</i>	Date/Time: <i>10/23/14 / 1635</i>	Company: <i>TestAmerica</i>
Reinquired by: <i>Patricia J. O'Meara</i>	Date/Time: <i>10/23/14 0845</i>	Company: <i>TestAmerica</i>
Reinquired by: <i>Patricia J. O'Meara</i>	Date/Time:	Company:

TestAmerica Canton Sample Receipt Form/Narrative  
Canton Facility

Login # : 43416

Client TRC Site Name \_\_\_\_\_ Cooler unpacked by: 

Cooler Received on 10-23-14 Opened on 10-25-14

FedEx: 1<sup>st</sup> Cr Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other \_\_\_\_\_

TestAmerica Cooler # \_\_\_\_\_ Foam Box Client Cooler Box Other \_\_\_\_\_

Packing material used: Bubble Wrap Foam Plastic Bag None Other \_\_\_\_\_

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt
 

IR GUN# A (CF +2 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C
IR GUN# 4 (CF -2 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C
IR GUN# 5 (CF 0 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C
IR GUN# 8 (CF 0 °C) Observed Cooler Temp. <u>1.4</u> °C	Corrected Cooler Temp. <u>1.4</u> °C

 See Multiple Cooler Form
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
 

<input checked="" type="checkbox"/> Yes	No NA
<input checked="" type="checkbox"/> Yes	NA
<input checked="" type="checkbox"/> Yes	Yes 
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Did all bottles arrive in good condition (Unbroken)? Yes No
7. Could all bottle labels be reconciled with the COC? Yes No
8. Were correct bottle(s) used for the test(s) indicated? Yes No
9. Sufficient quantity received to perform indicated analyses? Yes No
10. Were sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# HC412469
11. Were VOAs on the COC? Yes No
12. Were air bubbles >6 mm in any VOA vials? Yes No NA NA
13. Was a trip blank present in the cooler(s)? Yes No

Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other  
Concerning \_\_\_\_\_

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: 

15. SAMPLE CONDITION

Sample(s) \_\_\_\_\_ were received after the recommended holding time had expired.  
 Sample(s) \_\_\_\_\_ were received in a broken container.  
 Sample(s) \_\_\_\_\_ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) \_\_\_\_\_ were further preserved in the laboratory.  
 Time preserved: \_\_\_\_\_ Preservative(s) added/Lot number(s): \_\_\_\_\_